



SEQUENCE LISTING

RECEIVED

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TECH CENTER 1600/2900

<110> Bukh, J.

Miller, R.H.

Purcell, R.H.

<120> Nucleotide and Deduced Amino Acid Sequences of the
Envelope 1 and Core Genes of Isolates of Hepatitis C
Virus and the use of Reagents Derived From These
Sequences in Diagnostic Methods and Vaccines

<130> 20264116US2

<140> 09/084,691

<141> 1998-05-26

<150> 08/290,665

<151> 1994-08-15

<150> 08/086,428

<151> 1993-06-29

<160> 274

<170> PatentIn Ver. 2.1

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ttggtaatag ctcagctgct cagggtcccg caagccgtct tggacatgat cgctgggtgcc 480
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<211> 576

<212> DNA

<213> Homo sapiens

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<223> Individual Isolate: SW1

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<212> DNA

<213> Homo sapiens

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<223> Individual Isolate: US11

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<213> Homo sapiens

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<210> 10
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<212> DNA
<213> Homo sapiens

<220>
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<210> 11
<211> 576
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 11

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<212> DNA

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<223> Individual Isolate: HK3

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<211> 576

<212> DNA

<213> Homo sapiens

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<210> 14

<211> 576

<212> DNA

<213> Homo sapiens

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<223> Individual Isolate: HK5

<400> 14

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: IND8

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<211> 576
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: P10

<400> 18

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<211> 576

<212> DNA

<213> Homo sapiens

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<223> Individual Isolate: S9

<400> 19

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cacgtaacag gtcaccgcat ggcttgggat atgatgatga actggtcgcc tacagcagcc 420
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cactggggag tcctggcggg ccttgccctac tattccatgg tggggaactg ggctaagggt 540
ctgattgtga tgctactctt tgccggcggt gacggg 576

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<210> 21

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA10

<400> 21

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tatgaagtgc gcaacgtgtc cgggatgtac catgtcacga acgactgtc caactcaagc 60
attgtgtatg aggcagcgga catgatcatg cacaccccg ggtgctgcc ctgcttcgg 120
gagaacaact cctcccgttg ctgggttagcg ctcactccca cgctcgcggc caggaactcc 180
agcgtcccca ctacgacaat acgacgccac gtcgatttgc tcgttggggc ggctgctttc 240
tgctccgcca tgtacgtggg ggacctctgc ggatctgttt tccttgcttc ccagctgttc 300
accttctcgc ctgcccggta tgagacagta caggactgca attgctcaat ctatcccggc 360
cgcgtaacag gtcaccgcat ggcttgggat atgatgatga actggtcacc tacaacagct 420
ctagtagtat cgcagttact ccggatccca caagctatcg tggacatggg ggcgggggcc 480
cactggggag tcctagcggg ccttgccctac tattccatgg tggggaactg ggctaagggt 540
ttgattgtta tgctactctt tgccggcggt gacggg 576

```

<210> 22

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SW2

<400> 22

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tatgaagtgc gcaacgtgtc cggggtgtat catgtcacga acgactgttc caactcaagc 60
attgtgtatg agacagcgga catgatcatg cataaccccg ggtgctgcc ctgcttcgg 120
gaggccaact cctcccgttg ctgggttagcg ctcactccca cgctagcagc caggaacacc 180
agcgtcccca ctacgacaat acgacgccac gtcgatttgc tcgttggggc ggctgctttc 240
tgctccgtta tgtacgtggg ggatctctgc ggatctgttt tcctcgcttc ccagctgttc 300
actttttcac ctgcccggca cgagacagta caggactgca actgttccat ctatcccggc 360
cacgtatcag gtcaccgcat ggcttgggac atgatgatga actggtcacc tacagcagcc 420

```

```

ctggtggtat cgcagttact ccggatccca caagctgtcg tggacatggg agcggggggcc 480
cactggggag tcctggcggg ccttgcatatc tattccatgg tggggaactg ggctaagggt 540
ttgattgtga tgctactctt tgctggcggt gacggg 576

```

<210> 23

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 23

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tacgaagtgc gcaacgtgtc cggggtgtac tatgtcacga acgactgttc caactcaagc 60
attgtgtatg agacagcgga catgatcatg cacaccctg ggtgcgtgcc ctgcgttcgg 120
gagagcaatt cctcccgctg ctgggtagcg cttactccca cgctcgcggc caggaacgcc 180
agcgtcccca ctaagacaat acgacgtcac gtcgacttgc tcggtggggc ggctgctttc 240
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cacgtaacag gtcaccgtat ggcttgggat atgatgatga actggtcgcc cacaacggca 420
ctagtgggtg cgcagttgct ccggatccca caagctgtcg tggacatggg ggcggggggcc 480
cactggggag tcctggcggg ccttgccctac tattccatgg tggggaactg ggctaagggt 540
ttgattgtgc tgctactctt tgccggcggt gatggg 576

```

<210> 24

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T10

<400> 24

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tatgaagtgc gcaacgtgtc cgggatgtac catgtcacga acgactgttc caactcaagc 60
attgtgtttg aggcagcgga cttgatcatg cacaccccg ggtgcgtgcc ctgcgttcgg 120
gagggaact cctcccgctg ctgggtagcg ctcactccca cgctcgcggc caggaacacc 180
agcgtcccca ctacgacgat acgacgccat gtcgatttgc tcggtggggc ggctgctttc 240
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accttctcgc ctgcgcggca tgagactttg caggactgca actgctcaat ctatcccggc 360
catctgtcag gtcaccgcat ggcttgggac atgatgatga actggtcgcc tacaacagct 420
ctagtgggtg cgcagttact ccggatccca caagctgtca tggacatggg gacagggggcc 480
cactggggag tcctggcggg ccttgccctac tattccatgg cggggaactg ggctaagggt 540
ttaattgtga tgctactctt tgccggcggt gatggg 576

```

<210> 25

<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: US6

<400> 25
tatgaagtgc gcaacgtgtc cgggatgtac catgtcacga acgactgctc caactcaagc 60
attgtgtatg aggcagcggg catgatcatg cacactcccc ggtgcgtgcc ctgtgttcgg 120
gagaacaatt cctcccgtg ctgggtagcg ctcactccca cgctcgcggc caggaacgct 180
agcgtcccca ctacgacaat acgacgccac gtcgatttgc tcgttggggc ggctactttc 240
tgctccgcta tgtacgtggg ggacctctgc gggtcggtt tcctcatctc ccagctgttc 300
accttctcgc ctgctcagca tgagacagta caggactgca attgttcaat ctatcccggc 360
cacgtatcag gtcaccgcat ggcttgggat atgatgatga attggtcacc tacagcagcc 420
ctagtggat cgcagttact ccggatccca caagctgtca tggacatggg ggcgggggcc 480
cactggggag tcctggcggg ccttgccctac tattccatgg tggggaactg ggctaagggt 540
ctgattgtgt tgctactctt tgccggcggt gacggg 576

<210> 26
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T2

<400> 26
gccccagtga ggaacaccag ccgcgggttac atggtgacta acgactgttc caatgagagc 60
atcacctggc agctccaagc cgcggttctc cacgtccccg ggtgtatccc gtgtgagagg 120
ctgggaaata catcccgatg ctggataccg gtcacaccaa acgtggccgt gcggcagccc 180
ggcgctctta cgcagggctt gcggacgcac atcgacatgg ttgtgatgtc cgccacgctc 240
tgctctgccc tctacgtggg ggacctctgc ggcggggtga tgctcgcagc ccagatgttc 300
attgtctcgc cgcgacgcca ctggtttgtg caagaatgca attgtccat ctaccccggt 360
accatcactg gacaccgtat ggcattgggac atgatgatga actggtcgcc cacagccacc 420
atgatcctgg cgtacgcgat gcgcgttccc gaggtcatca tagacatcat cggcgggggt 480
cactggggcg tcatgtttgg cttggcctac ttctctatgc agggagcgtg ggccaagggtc 540
attgtcatcc tcttgctggc tgctgggggtg gacgcg 576

<210> 27
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T4

<400> 27

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gcacaagtga agaacaccac taacagctac atggtgacca acgactgttc taatgacagc 60
atcacttggc agctccaggc cgcggtcctc cacgtccccg ggtgtgtccc gtgcgagaaa 120
acgggaaata catctcgggtg ctggataccg gtttcaccaa acgtggccgt gcggcagccc 180
ggcgccctca cgcagggctt gcggacgcac attgacatgg ttgtgatgtc cgccacgctc 240
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atcgtctcgc cgcaacatca ctggtttgtg caagactgca attgctctat ctaccctggc 360
accatcactg gacaccgtat ggcatgggat atgatgatga actggtcgcc cacggccacc 420
atgatcctgg cgtacgcgat gcgcgttccc gaggtcatct tagacatcgt tagcggggca 480
cactggggcg tcatgttcgg cttggcctac ttctctatgc agggagcgtg ggcgaaagtc 540
gttgtcatcc ttctgtctgc cgctgggggtg gacgcg 576
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<210> 28

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 28

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gccgaagtga agaacaccag taccagctac atggtgacaa atgactgttc caacgacagc 60
atcacctggc aactccaggc cgcggtcctc cacgtccccg ggtgcgtccc gtgcgagaga 120
gttgaaacg cgtcgcgggtg ctggataccg gtctcgccaa acgtagctgt gcagcggcct 180
ggcgccctca cgcagggctt gcggacgcac atcgacatgg ttgtgatgtc cgccacgctc 240
tgctccgctc tctacgtggg ggatctctgc ggcggggtaa tgctcgcgcg tcagatgttc 300
attatctcgc cgcagcacca ctggtttgtg caggaatgca actgctccat ttaccctggt 360
accatcactg gacaccgtat ggcatgggac atgatgatga actggtcgcc cacaaccacc 420
atgatccttg cgtacgcgat gcgcgttccc gaggtcatca tagacatcat cagcggagct 480
cactggggcg tcatgttcgg cctagcctac ttctctatgc agggagcgtg ggcgaaagtc 540
gttgtcatcc tgttgtctac cgctggcggtg gacgcg 576
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<210> 29

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US10

<400> 29

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gtccaagtga aaaacaccag taccagctat atggtgacca atgactgttc caacgacagc 60
atcacttggc aacttgaggc tgcggtcctc cacgttcccc ggtgtgtccc gtgcgagaaa 120
gtgggaaata catctcgggtg ctggataccg gtctcacc aa atgtggccgt gcagcggcct 180
ggcgccctca cgcagggctt gcggactcac atcgacatgg tcgtgatgtc cgccacgctc 240
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```

tgctccgctc tttacgtggg ggactttctgc ggtgggatga tgctcgcagc ccaaagtgtc 300
attgtctcgc cgcgccacca ctcgtttgtg caggaatgca actgctccat ctaccccggg 360
accatcaccg ggcaccgat ggcatgggac atgatgatga actggtcgcc cacggccact 420
ttgatcctgg cgtacgtgat gcgcgttccc gaggtcatca tagacatcat tagcggggcg 480
cattggggcg tcttgttcgg cttagcctac ttctctatgc agggagcgtg ggcgaaagtc 540
gttgatcatc ttctgctagc cgctgggggtg gacgcg 576

```

<210> 30

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 30

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gtggaagtca ggaacatcag ttccagctac tacgccacca atgattgctc aaacaacagc 60
atcacctggc aactcaccga cgcagttctc caccttcccg gatgcgtccc atgtgagaat 120
gacaatggca ccctgcgctg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180
ggcgcaacta ctcataacct gcgaacacac gtcgacgtga tcgtaatggc agctacggtc 240
tgctcggcct tgtatgtggg agacgtatgc ggggccgtga tgatcgtgtc gcaggctctc 300
ataatatcgc ctgaacgcc aacttttacc caggagtga actgttccat ctaccaaggt 360
catatcaccg gccaccgcat ggcatgggac atgatgctaa actggtcacc aactcttacc 420
atgatcctcg cctatgccgc tcgtgttccct gagctagccc tccaggttgt cttcggcggc 480
cattggggcg tgggtgtttgg cttggcctat ttctccatgc agggagcgtg ggccaaagtc 540
attgccatcc tccttcttgt cgcaggagtg gatgca 576

```

<210> 31

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK11

<400> 31

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gtggaagtca ggaacaccag ttctagttac tacgccacca atgattgctc aaacaacagc 60
atcacctggc aactcaccaa cgcagttctc caccttcccg gatgcgtccc atgtgagaat 120
gacaatggca ccctgcactg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180
ggcgcaacta ctcacacct gcgagcacat atagatatga ttgtaatggc agctacggtc 240
tgctcggcct tgtatgtggg agacgtgtgc ggggccgtga tgatcgtgtc gcaggctttc 300
atagtatcgc cagaacacca ccactttacc caagagtga actgttccat ctaccaaggt 360
cacatcaccg gccaccgcat ggcatgggac atgatgctta actggtcacc aactctcacc 420
atgatcctcg cctatgccgc ccgtgttccct gagctagtcc ttgaagtctg cttcgggtgg 480
cattgggggtg tgggtgtttgg cttggcctat ttctccatgc agggagcgtg ggccaaggtc 540
attgccatcc tccttcttgt agcaggagtg gatgca 576

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<210> 32
 <211> 576
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SW3

<400> 32
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 atcacctggc aactcaccaa cgcagtcctc caccttcccc gatgcgtccc gtgtgagaat 120
 gataatggca ccctgcactg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180
 ggcgcgctca ctcacaacct gcgagcacac gtcgatatga tcgtaatggc agctacgggc 240
 tgctcggcct tgtatgtggg agacatgtgc ggggccgtga tgatcgtgtc gcaggctttc 300
 ataatatcgc cagaacgccca caactttacc caagagtgc actgttccat ctaccaaggt 360
 cgtatcacccg gccaccgcat ggcgtgggac atgatgctaa actgggcacc aactcttacc 420
 atgatccttg cctatgccgc tcgtgttcct gagctagtcc ttgaagttgt cttcggcggc 480
 cattggggcg tgggtgtttg cttggcctat ttctccatgc aaggagcgtg ggccaaggtc 540
 attgccatcc tcttgcttgt cgcaggagtg gatgca 576

<210> 33
 <211> 576
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Individual Isolate: T8

<400> 33
 gtggaagtta gaaacaccag ttttagctac tacgccacca atgattgctc gaacaacagc 60
 atcacctggc agctcaccaa cgcagttctc caccttcccc gatgcgtccc atgtgagaat 120
 gacaatggca ccttgcgctg ctggatacaa gtaacaccta atgtggctgt gaaacaccgt 180
 ggcgcactca ctcacaacct gcgaacgcat gtcgacgtga tcgtaatggc agctacgggc 240
 tgctcggcct tgtatgtggg ggacgtgtgc ggggccgtga tgatagcgtc gcaggctttc 300
 ataatatcgc cagaacgccca caacttcacc caggagtgc actgttccat ctaccaaggt 360
 catatcacccg gccaccgcat ggcattgggac atgatgctga actgggcacc aactctcacc 420
 atgatcctcg cctacgtgc tcgtgtgcct gaactagtcc ttgaagttgt cttcggcggc 480
 cattggggcg tgggtgtttg cttggcctat ttctccatgc aaggagcgtg ggccaaagtc 540
 atcgccatcc tcttccttgt cgcaggagtg gacgca 576

<210> 34
 <211> 576
 <212> DNA
 <213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 34

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gtggaggtca aggacaccgg cgactcctac atgccgacca acgattgctc caactctagt 60
atcgtttggc agcttgaagg agcagtgtt catactcctg gatgcgtccc ttgtgagcgt 120
accgccaacg tctctcgatg ttgggtgccg gttgccccca atctcgccat aagtcaacct 180
ggcgctctca ctaagggcct gcgagcacac atcgatatca tcgtgatgtc tgctacgggtc 240
tgttctgccc tttatgtggg ggacgtgtgt ggcgcgctga tgctggccgc tcaggtcgtc 300
gtcgtgtcgc cacaacacca tacgtttgtc caggaatgca actgttccat ataccggggc 360
cgcattacgg gacaccgcat ggcttgggat atgatgatga actggtcgcc cactaccacc 420
atgctcctgg cgtacttggg gcgcattccc gaagtcattt tggatattgt tacaggaggt 480
cattgggggtg taatgtttgg cctcgcttac ttctccatgc agggatcgtg ggccaagggtc 540
atcgttatcc tctgctgac tgctgggggtg gagggc 576
```

<210> 35

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK12

<400> 35

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ttagagtggc ggaatgtgtc cggcctctac gtccttacca acgactgttc caatagcagt 60
atcggtgatg aggccgatga cgtcattctg cacacacctg gctgtgtacc ttgtgttcag 120
gacggcaata catctacgtg ctggacctca gtgacgccta cagtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctgc tagtgggcgc ggccacgatg 240
tgctctgcgc tctacgtggg tgatgtgtgt ggggcgctct tccttgtggg acaagccttc 300
acgttcagac ctcgtcgcca tcaaacagtc cagacctgta actgctcgct gtaccaggc 360
catctttcag gacatcgaat ggcttgggat atgatgatga attgggtccc cgctgtgggt 420
atgggtggtg cgcacgtcct gcgtctgccc cagaccttgt tcgacataat agctggggcc 480
cattggggca tcatggcggg cctagcctat tactccatgc agggcaactg ggccaagggtc 540
gctatcatca tggttatggt ttcaggagtc gatgcc 576
```

<210> 36

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 36

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ctagagtggc ggaatgtgtc tggcctctat gtccttacca acgactgtcc caatagcagt 60
```



```

atttgtgtatg aggccgatga cgtcattctg cacacacctg gctgtgtacc ttgtgttcag 120
gacggcaata catccacgtg ctggacctcg gtgacaccta cagtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctgt tagtgggcgc ggccacgatg 240
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acgttcagac cgcgtcgcca tcaaacggtc cagacctgta actgctcgct gtaccaggc 360
cacctttcag gacatcgaat ggcttgggat atgatgatga attgggtccc cgccgtgggt 420
atgggtgggtg cgcacgtcct gcggttgccc cagacctgtg tcgacataat agccggggcc 480
cattggggca tcttggcagg cctagcctat tactccatgc agggcaactg ggccaaggct 540
gctatcatca tggttatgtt ttcaggggtc gatgcc 576

```

<210> 37

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S2

<400> 37

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ctagagtggc ggaatacgtc tggcctctat gtcctcacca acgactgttc caatagcagt 60
atttgtgtatg aggccgatga cgttattctg cacacacctg gctgtgtacc ttgtgttcag 120
gacggtaata catccacgtg ctggaccca gtgacaccta cagtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctat tgggtgggcgc ggccactatg 240
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acgttcagac ctcgtcgcca tcaaacggtc cagacctgta actgctcgct gtaccaggc 360
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atgggtgggtg cgcacgttct gcggttgccc cagaccgtgt tcgacataat agccggggcc 480
cattggggca tcttggcggg cctagcctat tactccatgc aaggcaactg ggccaaggct 540
gctatcatca tggttatgtt ttcaggggtc gacgcc 576

```

<210> 38

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 38

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ctagagtggc ggaatacgtc tggcctctat gtccttacca acgactgttc caatagcagt 60
atttgtgtatg aggccgatga cgtcattctg cacacacccg gctgtgtacc ttgtgttcag 120
gacggcaata catccatgtg ctggaccca gtgacaccta cgggtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctat tagtgggcgc ggccacgctg 240
tgctctgccc tctatgtggg tgatatgtgt ggggccgtct ttctcgtggg acaagccttc 300
acgttcagac ctcgtcgcca tcaaacggtc cagacctgta actgctcgct gtaccaggc 360
catgtttcag gacatcgaat ggcttgggat atgatgatga attgggtccc cgctgtgggt 420

```

```

atggtggtgg cgcacatcct gcgattgccc cagaccttgt ttgacatact ggccggggcc 480
cattggggca tcttggcggg cctagcctat tattctatgc agggcaactg ggccaaggctc 540
gctattgtca tgattatggt ttcaggggtc gatgcc 576

```

```

<210> 39
<211> 576
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Individual Isolate: S54

```

```

<400> 39
ctagagtggc ggaatacgtc tggcctctat atccttacca acgactgttc caatagcagt 60
attgtgtatg aggccgatga cgtcattctg cacacacccg gctgtgtacc ttgtgttcag 120
gacggcaata catccacgtg ctggacccca gtgacaccta cggtaggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctat tagtggggcg ggccacgctg 240
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acgttcagac ctgcgcgcca tcaaacgggc cagacctgta actgctcgtc gtaccagggc 360
catctttcag gacatcgaat ggcttgggat atgatgatga attgggtccc cgtgtgggt 420
atggtggtgg cgcacatcct gcgattgccc cagaccttgt ttgacatact ggccggggcc 480
cattggggca tcttggcggg cctagcctat tattctatgc agggcaactg ggccaaggctc 540
gctatcatca tgattatggt ttcaggggtc gatgcc 576

```

```

<210> 40
<211> 576
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Individual Isolate: Z4

```

```

<400> 40
gagcactacc ggaatgcttc gggcatctat cacatcacca atgattgtcc gaattccagt 60
atagtctatg aagctgacca tcacatccta cacttgccgg ggtgcgtacc ctgtgtgatg 120
actgggaaca catcgcggtg ctggacgccc gtgacgccta cagtggctgt cgcacacccg 180
ggcgctccgc ttgagtcggt ccggcgacat gtggacttaa tggtaggcgc ggccactttg 240
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acttttcggc cgcgcgcca ctggaccacg caggagtgca attgttccat ctacactggc 360
catatcaccg gccacaggat ggcggtgggac atgatgatga actggagccc taccaccact 420
ctgctcctcg cccagatcat gaggggtccc acagccttcc tcgacatggg tgccggaggc 480
cactggggcg tctcgcggg cttggcggtac ttcagcatgc aaggcaattg ggccaaggta 540
gtcctgggtc ttttctctt tgctggggta gacgcc 576

```

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<210> 41

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<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z1

<400> 41
gtgcactacc ggaatgcttc gggcgtctat catgtcacca atgattgccc taacaccagc 60
atagtgtacg agacggagca ccacatcatg cacttgccag ggtgtgtccc ctgtgtgcgg 120
acggagaata cttctcgctg ctgggtgccc ttgaccccca ctgtggccgc gccctatccc 180
aacgcaccgt tagagtccat gcgcaggcat gtagacctga tgggtgggtgc ggctactatg 240
tgttccgcct tctacattgg agatctgtgt ggaggcgtct tcctagtggg ccagctgttc 300
gacttccgac cgcgccggca ctggaccacc caggattgca actgctccat ctatcctggg 360
cacgtctcgg gccacaggat ggcctgggac atgatgatga actggagccc taccagcgcg 420
ctgattatgg ctcagatctt acggatcccc tctatcctag gtgacttgct caccgggggt 480
cactggggag ttcttgctgg tctagctttc ttcagcatgc agagtaactg ggccaaggtc 540
atcctggtcc tattcctctt tgccggggtc gagggg 576

<210> 42
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z6

<400> 42
gttaactatc gcaatgcctc gggcgtctat cacgtcacca acgactgccc gaactcgagc 60
atagtgtatg aggccgaaca ccagatctta cacctcccag ggtgcttgcc ctgtgtgagg 120
gttggaatc agtcacgctg ctgggtggcc cttactccca ccgtggcggg gtcttatatc 180
ggtgctccgc ttgactccct cgggagacat gtggacctga tgggtgggcgc cgctactgta 240
tgctctgccc tctacgttgg agatctgtgc ggtggtgcat tcttggttgg ccagatgttc 300
tccttccagc cgcgacgcca ctggactacg caggactgca attgttctat ctacgcaggg 360
catatcacgg gccacaggat ggcattgggac atgatgatga actggagtcc cacaaccacc 420
ctgcttctcg cccaggatcat gaggatccct agcactctgg tagatctact cgctggaggg 480
cactggggcg tccttggtgg gttggcgtag ttcagtatgc aagctaattg ggccaaagtc 540
atcctggtcc ttttctctt cgctggagtt gatgcc 576

<210> 43
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z7

<400> 43

```
gtcaactatc acaatgcctc gggcgtctat cacatcacca acgactgccc gaactcgagc 60
ataatgtatg aggccgaaca ccacatccta cacctcccag ggtgcgtacc ctgtgtgagg 120
gaggggaacc agtcacgctg ctgggtggcc cttactccca ccgtggcggc gccttatatc 180
ggtgcaccgc ttgaatccat ccggagacat gtggacctga tggtaggcgc tgctacagt 240
tgctccgctc tctacattgg ggacctgtgc ggtggcgtat ttttggttgg tcagatgttt 300
tctttccagc cgcgacgcca ctggactacg caggactgca attgttccat ctatgcgggg 360
cacgttacag gccacagaat ggcatgggac atgatgatga actggagtcc cacaaccacc 420
ttggtcctcg ccaggttat gaggatccct agcactctgg tggacctact cactggaggg 480
cactggggta tccttatcgg ggtggcatac ttctgcatgc aagctaattg ggccaaggtc 540
attctgggtcc ttttctcta cgctggagtt gatgcc 576
```

<210> 44

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 44

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tacaactatc gcaacagctc ggggtgtctac catgtcacca acgattgccc gaactcgagc 60
atagtctatg aaaccgatta ccacatctta cacctcccgg gatgcgttcc ttgcgtgagg 120
gaagggaaca agtctacatg ctgggtgtct ctcaccccca ccgtggctgc gcaacatctg 180
aatgtccgc ttgagtcttt gagacgtcac gtggatctga tggtaggcgc cgccactctc 240
tgctccgccc tctacatcgg agacgtgtgt gggggtgtgt tcttggtcgg tcaactgttc 300
accttccaac ctgcgcgcca ctggaccacc caagactgca attgttccat ctacacagga 360
catatcacag gacacagaat ggcttgggac atgatgatga attggagccc cactgcgacg 420
ctggtcctcg cccaacttat gaggatccca ggcgccatgg tcgacctgct tgcaggcggc 480
cactggggca ttctggttgg catagcgtac ttcagcatgc aagctaattg ggccaaggtt 540
atcctgggtcc tgtttctctt tgctggagtc gacgct 576
```

<210> 45

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 45

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gttccctacc ggaatgcctc tggggttttac catgtcacca atgactgccc aaactcctcc 60
atagtctacg aggctgatag cctgatcttg cagcacctg gctgcgtgcc ctgtgtcagg 120
caagataatg tcagtaggtg ctgggtccaa atcaccccca cactgtcagc cccgaccttc 180
ggagcgggtca cggctcctct tcggagggcc gttgactact tagcgggagg agctgctctc 240
```

```

tgctccgcac tatacgtcgg cgacgcgtgc ggggcagtgt ttctggtagg ccaaagtgtc 300
acctataggc ctgccagca taccacagtg caggactgca actgttccat ttacagtggc 360
catatcaccg gccaccggat ggcttgggac atgatgatga attggtcacc tacgacagcc 420
ttgctgatgg ccagatgct acggatcccc cagggtgtca tagacatcat agccgggggc 480
cactgggggg tcttgtttgc cgccgcatac tttgcgtcgg ccgccaactg ggctaaggta 540
gtgctgggtc tgttctgtt tgcgggggtc gatggc 576

```

<210> 46

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA4

<400> 46

```

gttccctacc gaaacgcctc tgggggtttat catgtcacca atgattgcc aaactcttcc 60
atagtttacg aggctgataa cctgatcttg catgcacctg gttgcgtgcc ttgtgtcagg 120
caagataatg tcagtaagtg ctgggtccaa atcaccccca cgttgtcagc cccgaatctc 180
ggagcgggtca cggctcctct tccgagggcc gttgactact tagcgggagg ggctgccctc 240
tgctccgcac tatacgtcgg ggacgcgtgc ggggcagtgt ttttggtagg ccaaagtgtc 300
acctataggc ctgccagca cactacggtg caagactgca attgctctat ttacagtggc 360
catatcaccg gccaccggat ggcattgggac atgatgatga attggtcacc tacgacggcc 420
ttgctgatgg ccagttgct acggattccc cagggtgtca tcgacatcat tgccgggggc 480
cactgggggg tcttgtttgc cgccgcatac ttcgcgtcag cggctaactg ggctaagggt 540
atactgggtc tgtttctgtt tgcgggggtc gatggc 576

```

<210> 47

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA5

<400> 47

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gtccctacc gaaatgcctc tgggggtttat catgtcacca atgattgcc aaactcttcc 60
atagtctacg aggctgataa cctgattctg cagcacctg gttgcgtgcc ctgtgtcaag 120
gaaggtaatg tcagtaggtg ctgggtccaa atcaccccca cattgtcagc cccgaacctc 180
ggagcgggtca cggctcctct tccgaggggc gttgactact tagcgggagg ggctgccctc 240
tgctccgcac tatacgtcgg ggacgcgtgc ggggcagtgt tcttggtagg ccaaagtgtc 300
acctataggc ctgccagca tactacggtg caggactgca actgttccat ttacagcggc 360
catatcaccg gccaccgaat ggcattgggac atgatgatga attggtcacc tacgacagcc 420
ttggtgatgg ccagggtgct acggattccc caagtgtgtc ttgacatcat tgccgggggc 480
cactgggggg tcttgttcgc cgtcgcatat ttcgcgtcag cggctaactg ggctaagggt 540
gtgctgggtc tgtttctgtt tgcgggggtc gatggc 576

```

<210> 48
<211> 576
<212> DNA
<213> Homo sapiens

<400> 48
gttccttacc ggaatgcctc tggggtgtat catgttacca atgattgccc aaactcttcc 60
atagtctatg aggctgatga cctgaccta cagcacctg gctgcgtgcc ctgtgtccgg 120
aaggataatg tcagtagatg ctgggttcat atcaccccca cactatcagc cccgagcctc 180
ggagcgggtca cggctcctct tcggagggcc gttgattact tggcgggagg ggccgccctg 240
tgctccgcgt tatacgtcgg agacgtgtgc ggggcattgt ttttggtagg ccaaagtgtc 300
acctataggc ctgccagca tgctacggtg caggactgca actgctccat ttacagtggc 360
catatcactg gccaccggat ggcatgggac atgatgatga attggtcacc cgcgacagcc 420
ttggtgatgg cccaaatgct acggattccc caggtgggtca ttgacatcat tgccgggggc 480
cactgggggg tcttggtcgc cgctgcatac ttgcgctcgg cggctaactg ggctaagggtt 540
gtgctgggtct tgtttctggt tgccgggggtt gatgcc 576

<210> 49
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA7

<400> 49
gtcccctacc gaaatgcctc cgggggtttat catgtcacca atgattgccc gaactcttcc 60
atagtctatg aggctgacaa cctgaccta cagcacctg gttgcgtgcc ctgtgtcaga 120
caaaataatg tcagtaggtg ctgggtccaa atcaccccca cattgtcagc cccgaacctc 180
ggagcgggtca cggctcctct tcggagggcc gttgactacc tagcgggagg ggctgccctc 240
tgctccgcgc tatacgtcgg ggacgcgtgc ggggcagtgt ttttggtagg ccagatgttc 300
agctataggc ctgccagca cactacggtg caggactgca actgttccat ttacagtggc 360
catatcaccg gccaccgaat ggcatgggac atgatgatga attggtcacc tacgacagcc 420
ttggtgatgg ccagttgct acggattccc caggtgggtca tcgacatcat tgccgggggc 480
cactgggggg tcttggtcgc cgccgcatat ttgcgctcag cggctaactg ggctaagggtt 540
gtgctgggtct tgtttctggt tgccgggggtc gatgcc 576

<210> 50
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA13

<400> 50

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gttcctacc gaaatgctc tggggtttat catgtcacca atgattgccc aaactcttcc 60
atcgtctacg aggctgatga cctgatctta cagcacctg gttgcgtgcc ctgtgttagg 120
cagggtaatg tcagtaggtg ctgggtccag atcaccccca cactgtcagc cccgagcctc 180
ggagcgggtca cggctcctct tcggagggcc gttgactact tagcgggggg ggctgccctt 240
tgctccgctg tatacgtcgg agacgcgtgc ggggcagtgt ttttggtagg tcaaagtgtc 300
acctatagcc ctgcgccgga taatgttgtg caggactgca actgttccat ttacagtggc 360
cacatcacgg gccaccgat ggcattgggac atgatgatga attggtcacc tacaacagct 420
ttggtgatgg ccagttgtt acggattccc cagggtgtca ttgacatcat tgccggggcc 480
cactgggggg tcttgttcgc cgccgcatac tacgcgtcgg cggctaactg ggccaagggt 540
gtgctggtcc tgtttctgtt tgcgggggtc gatgcc 576
```

<210> 51

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 51

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cttacctacg gcaactccag tgggctatac catctcacia atgattgccc caactccagc 60
atcgtgctgg aggcgggatgc tatgatcttg catttgccctg gatgcttgcc ttgtgtgagg 120
gtcgatgatc ggtccacctg ttggcatgct gtgaccccca ccctggccat accaaatgct 180
tccacgcccg caacgggatt ccgcaggcat gtggatcttc ttgcggggcg cgcagtgggt 240
tgctcatccc tgtacatcgg ggacctgtgt ggctctctct ttttggcggg acaactattc 300
acctttcagc cccgcggtca ttggactgtg caagactgca actgctccat ctatacaggc 360
cacgtcacgg gccacaggat ggcttgggac atgatgatga actggtcacc cacaaccact 420
ctggtcctat ctagcatctt gagggtaact gagatttgtg cgagtgtgat atttggtggc 480
cattggggga tactactagc cgttgcctac tttggcatgg ctggcaactg gctaaaagtt 540
ctggctgttc tgttcctatt tgcagggggt gaagca 576
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<210> 52

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK7

<400> 52

```
Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
  1             5             10             15
```

```
Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr
```

20	25	30
Pro Gly Cys Val	Pro Cys Val Arg Glu Gly Asn Val	Ser Arg Cys Trp
35	40	45
Val Ala Met Thr	Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr	
50	55	60
Ala Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu		
65	70	75 80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val		
85	90	95
Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly		
100	105	110
Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala		
130	135	140
Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala		
145	150	155 160
His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn		
165	170	175
Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala		
180	185	190

<210> 53

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK9

<400> 53

Tyr Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Ser
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Lys Cys Trp
 35 40 45
 Val Ala Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
 50 55 60
 Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95
 Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Met Ala
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
 145 150 155 160
 His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Val Val Val Leu Leu Leu Phe Thr Gly Val Asp Ala
 180 185 190

<210> 54
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DR1

<400> 54
 His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
 1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Ala
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
35 40 45

Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Val Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 55

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DR4

<400> 55

His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys

1	5	10	15
Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr			
20	25	30	
Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Thr Ser Arg Cys Trp			
35	40	45	
Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr			
50	55	60	
Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu			
65	70	75	80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val			
85	90	95	
Gly Gln Leu Phe Thr Phe Ser Pro Arg His His Trp Thr Thr Gln Asp			
100	105	110	
Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala			
115	120	125	
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala			
130	135	140	
Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala			
145	150	155	160
His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn			
165	170	175	
Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala			
180	185	190	

<210> 56
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S14

<400> 56

Tyr	Gln	Val	Arg	Asn	Ser	Thr	Gly	Leu	Tyr	His	Val	Thr	Asn	Asp	Cys
1				5					10					15	
Pro	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Thr	Ala	Asp	Ala	Ile	Leu	His	Ala
			20					25					30		
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Glu	Gly	Asn	Thr	Ser	Arg	Cys	Trp
		35					40					45			
Val	Ala	Met	Thr	Pro	Thr	Val	Ala	Thr	Arg	Asp	Gly	Lys	Leu	Pro	Ala
	50					55					60				
Thr	Gln	Leu	Arg	Arg	Tyr	Ile	Asp	Leu	Leu	Val	Gly	Ser	Ala	Thr	Leu
65					70					75					80
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val
				85					90					95	
Gly	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	Leu	Trp	Thr	Thr	Gln	Asp
		100						105					110		
Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
	115						120					125			
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Val	Ala
	130					135					140				
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Ile	Leu	Asp	Met	Ile	Ala	Gly	Ala
145					150					155					160
His	Trp	Gly	Val	Leu	Ala	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Val	Gly	Asn
			165					170						175	
Trp	Ala	Lys	Val	Leu	Val	Val	Leu	Leu	Leu	Phe	Ala	Gly	Val	Asp	Ala
		180					185						190		

<210> 57

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S18

<400> 57

Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Thr Ile Leu His Ser
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
35 40 45

Val Pro Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Ile Ala
130 135 140

Gln Leu Leu Arg Val Pro Gln Ala Val Leu Asp Met Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Ala Gly Asn
165 170 175

Trp Ala Lys Val Leu Leu Val Leu Leu Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 58

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW1

<400> 58

Tyr Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Ala Ile Leu His Ser
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Gly Ala Pro Lys Cys Trp
35 40 45

Val Ala Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Leu Asp Met Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ser Gly Val Asp Ala
180 185 190

<210> 59

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US11

<400> 59

Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
35 40 45

Val Ala Met Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ala
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 60

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 60

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Gly Asn Val Pro Thr
50 55 60

Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
85 90 95

Ser Gln Leu Phe Thr Leu Ser Pro Arg Arg His Glu Thr Val Gln Glu
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 61

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D3

<400> 61

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Gln Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Glu
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 62

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 62

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Val Asp Val Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn His Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Ala Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Leu Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 63

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 63

Tyr Glu Val Arg Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Val Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Val Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 64

<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK4

<400> 64

His Glu Val His Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Leu Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 65
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK5

<400> 65
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15
Ser Asn Leu Ser Ile Val Tyr Glu Thr Thr Asp Met Ile Met His Thr
20 25 30
Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45
Val Ala Leu Ala Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
50 55 60
Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140
Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 66
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: HK8

<400> 66

Tyr	Glu	Val	Arg	Asn	Val	Ser	Gly	Ile	Tyr	His	Val	Thr	Asn	Asp	Cys
1				5					10					15	
Ser	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Thr	Ala	Asp	Met	Ile	Met	His	Thr
			20					25					30		
Pro	Gly	Cys	Met	Pro	Cys	Val	Arg	Glu	Asn	Asn	Ser	Ser	Arg	Cys	Trp
		35					40					45			
Val	Ala	Leu	Thr	Pro	Thr	Leu	Ala	Ala	Arg	Asn	Val	Ser	Val	Pro	Thr
	50					55					60				
Thr	Thr	Ile	Arg	Arg	His	Val	Asp	Leu	Leu	Val	Gly	Ala	Ala	Ala	Phe
65					70					75					80
Cys	Ser	Ala	Met	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val
				85					90					95	
Ser	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	His	Glu	Thr	Val	Gln	Asp
		100						105					110		
Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Val	Ser	Gly	His	Arg	Met	Ala
	115						120				125				
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Val	Ser
	130					135					140				
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Ile	Val	Asp	Met	Val	Ala	Gly	Ala
145					150					155				160	
His	Trp	Gly	Val	Leu	Ala	Gly	Leu	Ala	Tyr	Tyr	Ser	Met	Val	Gly	Asn
			165					170						175	
Trp	Ala	Lys	Val	Leu	Ile	Val	Met	Leu	Leu	Phe	Ala	Gly	Val	Asp	Gly
		180						185					190		

<210> 67
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: IND5

<400> 67
 Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp
 35 40 45
 Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Ser Thr
 50 55 60
 Thr Thr Ile Arg His His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65 70 75 80
 Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95
 Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
 145 150 155 160
 His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 68
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: IND8

<400> 68
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30
Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Phe Ser Ser Cys Trp
35 40 45
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
50 55 60
Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140
Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160
His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 69
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: P10

<400> 69
 Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
 35 40 45
 Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
 50 55 60
 Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65 70 75 80
 Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Leu Leu Val
 85 90 95
 Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Val Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Val Val Ala Gly Ala
 145 150 155 160
 His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 70
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S9

<400> 70
Tyr Glu Val Arg Asn Val Ser Gly Ala Tyr His Val Thr Asn Asp Cys
1 5 10 15
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Val Ile Met His Thr
20 25 30
Pro Gly Cys Val Pro Cys Val Gln Glu Gly Asn Ser Ser Gln Cys Trp
35 40 45
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Thr Val Pro Thr
50 55 60
Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Val Phe
65 70 75 80
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
85 90 95
Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Glu Thr Val Gln Asn
100 105 110
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140
Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145 150 155 160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly

180

185

190

<210> 71

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S45

<400> 71

Tyr	Glu	Val	Arg	Asn	Val	Ser	Gly	Ala	Tyr	His	Val	Thr	Asn	Asp	Cys
1				5					10					15	

Ser	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Ala	Val	Asp	Val	Ile	Leu	His	Thr
				20				25					30		

Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Glu	Asn	Asn	Ser	Ser	Arg	Cys	Trp
		35					40					45			

Val	Ala	Leu	Thr	Pro	Thr	Leu	Ala	Ala	Arg	Asn	Ser	Ser	Val	Pro	Thr
	50					55					60				

Thr	Thr	Ile	Arg	Arg	His	Val	Asp	Leu	Leu	Val	Gly	Ala	Ala	Ala	Phe
65					70					75					80

Cys	Ser	Ala	Met	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val
				85					90					95	

Ser	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	His	Glu	Thr	Val	Gln	Asp
		100						105					110		

Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Val	Thr	Gly	His	Arg	Met	Ala
		115					120					125			

Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Ala	Ala	Leu	Val	Val	Ser
	130					135					140				

Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Val	Val	Asp	Met	Val	Ala	Gly	Ala
145					150					155					160

His	Trp	Gly	Val	Leu	Ala	Gly	Leu	Ala	Tyr	Tyr	Ser	Met	Val	Gly	Asn
				165					170					175	

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 72
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA10

<400> 72
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
1 5 10 15
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30
Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60
Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg Tyr Glu Thr Val Gln Asp
100 105 110
Cys Asn Cys Ser Ile Tyr Pro Gly Arg Val Thr Gly His Arg Met Ala
115 120 125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140
Gln Leu Leu Arg Ile Pro Gln Ala Ile Val Asp Met Val Ala Gly Ala
145 150 155 160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 73
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 73
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Ala Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Val Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn

165

170

175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 74

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 74

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Tyr Val Thr Asn Asp Cys
 1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
 20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Ser Asn Ser Ser Arg Cys Trp
 35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
 50 55 60

Lys Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
 100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
 130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
 145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 75
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T10

<400> 75
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Phe Glu Ala Ala Asp Leu Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Leu Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Thr Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 76
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: US6

<400> 76
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Thr Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Gln His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala

145	150	155	160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn			
	165	170	175
Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly			
	180	185	190

<210> 77
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: T2

<400> 77

Ala Gln Val Arg Asn Thr Ser Arg Gly Tyr Met Val Thr Asn Asp Cys			
1	5	10	15
Ser Asn Glu Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val			
	20	25	30
Pro Gly Cys Ile Pro Cys Glu Arg Leu Gly Asn Thr Ser Arg Cys Trp			
	35	40	45
Ile Pro Val Thr Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr			
	50	55	60
Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu			
	65	70	75
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala			
	85	90	95
Ala Gln Met Phe Ile Val Ser Pro Arg Arg His Trp Phe Val Gln Glu			
	100	105	110
Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala			
	115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala			
	130	135	140

Tyr Ala Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Gly Gly Ala
 145 150 155 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Ile Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
 180 185 190

<210> 78

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T4

<400> 78

Ala Gln Val Lys Asn Thr Thr Asn Ser Tyr Met Val Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
 20 25 30

Pro Gly Cys Val Pro Cys Glu Lys Thr Gly Asn Thr Ser Arg Cys Trp
 35 40 45

Ile Pro Val Ser Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr
 50 55 60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
 85 90 95

Ala Gln Met Phe Ile Val Ser Pro Gln His His Trp Phe Val Gln Asp
 100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Met Arg Val Pro Glu Val Ile Leu Asp Ile Val Ser Gly Ala
 145 150 155 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Val Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
 180 185 190

<210> 79

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 79

Ala Glu Val Lys Asn Thr Ser Thr Ser Tyr Met Val Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
 20 25 30

Pro Gly Cys Val Pro Cys Glu Arg Val Gly Asn Ala Ser Arg Cys Trp
 35 40 45

Ile Pro Val Ser Pro Asn Val Ala Val Gln Arg Pro Gly Ala Leu Thr
 50 55 60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
 85 90 95

Ala Gln Met Phe Ile Ile Ser Pro Gln His His Trp Phe Val Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Ile Leu Ala

130	135	140
Tyr Ala Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Ser Gly Ala		
145	150	155 160
His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala		
	165	170 175
Trp Ala Lys Val Val Val Ile Leu Leu Leu Thr Ala Gly Val Asp Ala		
	180	185 190

<210> 80
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: US10

<400> 80

Val Gln Val Lys Asn Thr Ser Thr Ser Tyr Met Val Thr Asn Asp Cys		
1	5	10 15
Ser Asn Asp Ser Ile Thr Trp Gln Leu Glu Ala Ala Val Leu His Val		
	20	25 30
Pro Gly Cys Val Pro Cys Glu Lys Val Gly Asn Thr Ser Arg Cys Trp		
	35	40 45
Ile Pro Val Ser Pro Asn Val Ala Val Gln Arg Pro Gly Ala Leu Thr		
	50	55 60
Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu		
	65	70 75 80
Cys Ser Ala Leu Tyr Val Gly Asp Phe Cys Gly Gly Met Met Leu Ala		
	85	90 95
Ala Gln Met Phe Ile Val Ser Pro Arg His His Ser Phe Val Gln Glu		
	100	105 110
Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala		
	115	120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Leu Ile Leu Ala
 130 135 140

Tyr Val Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Ser Gly Ala
 145 150 155 160

His Trp Gly Val Leu Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Val Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
 180 185 190

<210> 81

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 81

Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asp Ala Val Leu His Leu
 20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp
 35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
 50 55 60

His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val
 85 90 95

Ser Gln Ala Leu Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Ala Leu Gln Val Val Phe Gly Gly
 145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
 180 185 190

<210> 82
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK11

<400> 82
 Val Glu Val Arg Asn Thr Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
 20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp
 35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
 50 55 60

His Asn Leu Arg Ala His Ile Asp Met Ile Val Met Ala Ala Thr Val
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val
 85 90 95

Ser Gln Ala Phe Ile Val Ser Pro Glu His His His Phe Thr Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala

115		120		125
Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala				
130		135		140
Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly				
145		150		155
				160
His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala				
	165		170	175
Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala				
	180		185	190

<210> 83
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SW3

<400> 83

Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys				
1		5		10
				15
Ser Asn Ser Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu				
	20		25	30
Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp				
	35		40	45
Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr				
	50		55	60
His Asn Leu Arg Ala His Val Asp Met Ile Val Met Ala Ala Thr Val				
	65		70	75
				80
Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Met Ile Val				
	85		90	95
Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu				
	100		105	110

Cys Asn Cys Ser Ile Tyr Gln Gly Arg Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly
 145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
 180 185 190

<210> 84
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: T8

<400> 84
 Val Glu Val Arg Asn Thr Ser Phe Ser Tyr Tyr Ala Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
 20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp
 35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
 50 55 60

His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Ala
 85 90 95

Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly
 145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
 180 185 190

<210> 85

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 85

Val Glu Val Lys Asp Thr Gly Asp Ser Tyr Met Pro Thr Asn Asp Cys
 1 5 10 15

Ser Asn Ser Ser Ile Val Trp Gln Leu Glu Gly Ala Val Leu His Thr
 20 25 30

Pro Gly Cys Val Pro Cys Glu Arg Thr Ala Asn Val Ser Arg Cys Trp
 35 40 45

Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu Thr
 50 55 60

Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr Val
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Leu Met Leu Ala
 85 90 95

Ala Gln Val Val Val Val Ser Pro Gln His His Thr Phe Val Gln Glu

100	105	110
Cys Asn Cys Ser Ile Tyr Pro Gly Arg Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Leu Leu Ala		
130	135	140
Tyr Leu Val Arg Ile Pro Glu Val Ile Leu Asp Ile Val Thr Gly Gly		
145	150	155
His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ser		
165	170	175
Trp Ala Lys Val Ile Val Ile Leu Leu Leu Thr Ala Gly Val Glu Ala		
180	185	190

<210> 86
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK12

<400> 86

Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
1 5 10 15
Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
20 25 30
Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
35 40 45
Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
50 55 60
Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
65 70 75 80
Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Phe Leu Val
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
130 135 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala
145 150 155 160

His Trp Gly Ile Met Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
180 185 190

<210> 87

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 87

Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
35 40 45

Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
 100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
 130 135 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala
 145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
 165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
 180 185 190

<210> 88
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S2

<400> 88
 Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
 1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
 20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
 35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
 50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val

85

90

95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
 100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
 130 135 140

His Val Leu Arg Leu Pro Gln Thr Val Phe Asp Ile Ile Ala Gly Ala
 145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
 165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
 180 185 190

<210> 89

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 89

Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
 1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
 20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Met Cys Trp
 35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
 50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
 85 90 95
 Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
 100 105 110
 Cys Asn Cys Ser Leu Tyr Pro Gly His Val Ser Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
 130 135 140
 His Ile Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Leu Ala Gly Ala
 145 150 155 160
 His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
 165 170 175
 Trp Ala Lys Val Ala Ile Val Met Ile Met Phe Ser Gly Val Asp Ala
 180 185 190

<210> 90
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S54

<400> 90
 Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Ile Leu Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
 20 25 30
 Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
 35 40 45
 Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
 50 55 60
 Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
130 135 140

His Ile Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Leu Ala Gly Ala
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Ile Met Phe Ser Gly Val Asp Ala
180 185 190

<210> 91
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z4

<400> 91
Glu His Tyr Arg Asn Ala Ser Gly Ile Tyr His Ile Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp His His Ile Leu His Leu
20 25 30

Pro Gly Cys Val Pro Cys Val Met Thr Gly Asn Thr Ser Arg Cys Trp
35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro Leu
50 55 60

Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Leu

65		70		75		80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Met						
	85		90		95	
Gly Gln Met Ile Thr Phe Arg Pro Arg Arg His Trp Thr Thr Gln Glu						
	100		105		110	
Cys Asn Cys Ser Ile Tyr Thr Gly His Ile Thr Gly His Arg Met Ala						
	115		120		125	
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala						
	130		135		140	
Gln Ile Met Arg Val Pro Thr Ala Phe Leu Asp Met Val Ala Gly Gly						
	145		150		155	160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Phe Ser Met Gln Gly Asn						
	165		170		175	
Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala						
	180		185		190	

<210> 92
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: Z1

<400> 92															
Val His Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys															
1				5					10					15	
Pro Asn Thr Ser Ile Val Tyr Glu Thr Glu His His Ile Met His Leu															
				20					25					30	
Pro Gly Cys Val Pro Cys Val Arg Thr Glu Asn Thr Ser Arg Cys Trp															
				35					40					45	
Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro Leu															
				50					55					60	

Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Met
65 70 75 80

Cys Ser Ala Phe Tyr Ile Gly Asp Leu Cys Gly Gly Val Phe Leu Val
85 90 95

Gly Gln Leu Phe Asp Phe Arg Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ser Ala Leu Ile Met Ala
130 135 140

Gln Ile Leu Arg Ile Pro Ser Ile Leu Gly Asp Leu Leu Thr Gly Gly
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Phe Phe Ser Met Gln Ser Asn
165 170 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Glu Gly
180 185 190

<210> 93
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z6

<400> 93
Val Asn Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Glu His Gln Ile Leu His Leu
20 25 30

Pro Gly Cys Leu Pro Cys Val Arg Val Gly Asn Gln Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Val Ala Val Ser Tyr Ile Gly Ala Pro Leu
50 55 60

Asp Ser Leu Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Val
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Val
85 90 95

Gly Gln Met Phe Ser Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Ala Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala
130 135 140

Gln Val Met Arg Ile Pro Ser Thr Leu Val Asp Leu Leu Ala Gly Gly
145 150 155 160

His Trp Gly Val Leu Val Gly Leu Ala Tyr Phe Ser Met Gln Ala Asn
165 170 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 94
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z7

<400> 94
Val Asn Tyr His Asn Ala Ser Gly Val Tyr His Ile Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Met Tyr Glu Ala Glu His His Ile Leu His Leu
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Gln Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Val Ala Ala Pro Tyr Ile Gly Ala Pro Leu

50

55

60

Glu Ser Ile Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Val
65 70 75 80

Cys Ser Ala Leu Tyr Ile Gly Asp Leu Cys Gly Gly Val Phe Leu Val
85 90 95

Gly Gln Met Phe Ser Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Ala Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Val Leu Ala
130 135 140

Gln Val Met Arg Ile Pro Ser Thr Leu Val Asp Leu Leu Thr Gly Gly
145 150 155 160

His Trp Gly Ile Leu Ile Gly Val Ala Tyr Phe Cys Met Gln Ala Asn
165 170 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Tyr Ala Gly Val Asp Ala
180 185 190

<210> 95

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 95

Tyr Asn Tyr Arg Asn Ser Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Asp Tyr His Ile Leu His Leu
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Lys Ser Thr Cys Trp
35 40 45

Val Ser Leu Thr Pro Thr Val Ala Ala Gln His Leu Asn Ala Pro Leu
50 55 60

Glu Ser Leu Arg Arg His Val Asp Leu Met Val Gly Gly Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Ile Gly Asp Val Cys Gly Gly Val Phe Leu Val
85 90 95

Gly Gln Leu Phe Thr Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Thr Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Leu Val Leu Ala
130 135 140

Gln Leu Met Arg Ile Pro Gly Ala Met Val Asp Leu Leu Ala Gly Gly
145 150 155 160

His Trp Gly Ile Leu Val Gly Ile Ala Tyr Phe Ser Met Gln Ala Asn
165 170 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 96

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 96

Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Ser Leu Ile Leu His Ala
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Gln Asp Asn Val Ser Arg Cys Trp
35 40 45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Thr Phe Gly Ala Val Thr
 50 55 60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
 85 90 95

Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp
 100 105 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Leu Met Ala
 130 135 140

Gln Met Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
 145 150 155 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn
 165 170 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 97

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA4

<400> 97

Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala
 20 25 30

Pro Gly Cys Val Pro Cys Val Arg Gln Asp Asn Val Ser Lys Cys Trp

35	40	45
Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr		
50	55	60
Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu		
65	70	75 80
Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val		
	85 90	95
Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp		
	100 105	110
Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala		
	115 120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Leu Met Ala		
	130 135	140
Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly		
145	150	155 160
His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn		
	165 170	175
Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala		
	180 185	190

<210> 98
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SA5

<400> 98													
Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys													
1				5				10				15	
Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala													
			20				25				30		

Pro Gly Cys Val Pro Cys Val Lys Glu Gly Asn Val Ser Arg Cys Trp
 35 40 45

 Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr
 50 55 60

 Ala Pro Leu Arg Arg Val Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65 70 75 80

 Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
 85 90 95

 Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp
 100 105 110

 Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
 115 120 125

 Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
 130 135 140

 Gln Val Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
 145 150 155 160

 His Trp Gly Val Leu Phe Ala Val Ala Tyr Phe Ala Ser Ala Ala Asn
 165 170 175

 Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 99

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA6

<400> 99

Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15

 Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Leu Ile Leu His Ala
 20 25 30

Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Lys	Asp	Asn	Val	Ser	Arg	Cys	Trp
		35					40					45			
Val	His	Ile	Thr	Pro	Thr	Leu	Ser	Ala	Pro	Ser	Leu	Gly	Ala	Val	Thr
		50				55					60				
Ala	Pro	Leu	Arg	Arg	Ala	Val	Asp	Tyr	Leu	Ala	Gly	Gly	Ala	Ala	Leu
		65			70					75					80
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Val	Cys	Gly	Ala	Leu	Phe	Leu	Val
				85					90					95	
Gly	Gln	Met	Phe	Thr	Tyr	Arg	Pro	Arg	Gln	His	Ala	Thr	Val	Gln	Asp
			100					105					110		
Cys	Asn	Cys	Ser	Ile	Tyr	Ser	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
		115					120					125			
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Ala	Thr	Ala	Leu	Val	Met	Ala
		130				135					140				
Gln	Met	Leu	Arg	Ile	Pro	Gln	Val	Val	Ile	Asp	Ile	Ile	Ala	Gly	Gly
		145			150					155					160
His	Trp	Gly	Val	Leu	Phe	Ala	Ala	Ala	Tyr	Phe	Ala	Ser	Ala	Ala	Asn
			165						170						175
Trp	Ala	Lys	Val	Val	Leu	Val	Leu	Phe	Leu	Phe	Ala	Gly	Val	Asp	Ala
			180					185					190		

<210> 100

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA7

<400> 100

Val	Pro	Tyr	Arg	Asn	Ala	Ser	Gly	Val	Tyr	His	Val	Thr	Asn	Asp	Cys
1				5					10					15	

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala

20	25	30
Pro Gly Cys Val Pro Cys Val Arg Gln Asn Asn Val Ser Arg Cys Trp		
35	40	45
Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr		
50	55	60
Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu		
65	70	75 80
Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val		
85	90	95
Gly Gln Met Phe Ser Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp		
100	105	110
Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala		
130	135	140
Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly		
145	150	155 160
His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn		
165	170	175
Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala		
180	185	190

<210> 101

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA13

<400> 101

Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Leu Ile Leu His Ala
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Gln Gly Asn Val Ser Arg Cys Trp
 35 40 45
 Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Ser Leu Gly Ala Val Thr
 50 55 60
 Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
 85 90 95
 Gly Gln Met Phe Thr Tyr Ser Pro Arg Arg His Asn Val Val Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Ala
 145 150 155 160
 His Trp Gly Val Leu Phe Ala Ala Ala Tyr Tyr Ala Ser Ala Ala Asn
 165 170 175
 Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
 180 185 190

<210> 102

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 102

Leu Thr Tyr Gln Asn Ser Ser Gln Leu Tyr His Leu Thr Asn Asp Cys
 1 5 10 15

Pro Asn Ser Ser Ile Val Leu Glu Ala Asp Ala Met Ile Leu His Leu
 20 25 30

Pro Gln Cys Leu Pro Cys Val Arg Val Asp Asp Arg Ser Thr Cys Trp
 35 40 45

His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro Ala
 50 55 60

Thr Gln Phe Arg Arg His Val Asp Leu Leu Ala Gln Ala Ala Val Val
 65 70 75 80

Cys Ser Ser Leu Tyr Ile Gln Asp Leu Cys Gln Ser Leu Phe Leu Ala
 85 90 95

Gln Gln Leu Phe Thr Phe Gln Pro Arg Arg His Trp Thr Val Gln Asp
 100 105 110

Cys Asn Cys Ser Ile Tyr Thr Gln His Val Thr Gln His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Val Leu Ser
 130 135 140

Ser Ile Leu Arg Val Pro Glu Ile Cys Ala Ser Val Ile Phe Gln Gln
 145 150 155 160

His Trp Gln Ile Leu Leu Ala Val Ala Tyr Phe Gln Met Ala Gln Asn
 165 170 175

Trp Leu Lys Val Leu Ala Val Leu Phe Leu Phe Ala Gln Val Glu Ala
 180 185 190

<210> 103

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK7

<400> 103

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60

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ggccctagat tgggtgtgcg cgcgcgcagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcacgtcgg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggcctagctg gggccccaca gacccccggc gcaggtcgcg caatttgggt 360
aaagtcacg atacccttac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420
ggcgcacctc ttggaggcgc tgccagggcc ctggcgcgat gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgcctct tctctatctt ccttttggcc 540
ctgctctctt gcctgaccgt gcccgccttcg gcc 573

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<210> 104

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US11

<400> 104

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgcgcagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcacgtcgg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggcctagctg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg atacccttac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420
ggcgcacctc tcggaggcgc tgccagggcc ctggcgcgat gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgcctct tctctatctt ccttctggcc 540
ctgctctctt gcctgactgt gcccgccttc gcc 573

```

<210> 105

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S14

<400> 105

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgcgcagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcacgtcgg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggcctagctg gggccccaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420

```

```

ggcgcccccc tcggggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt cctcctagcc 540
ctgctttctt gcctgactgt gcccgcgtca gcc 573

```

<210> 106

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SW1

<400> 106

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag ttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttcg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcgcgtcgg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcggatggg cgggatggct cctgtcccc 300
cgtggctctc ggcctagctg gggccctaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgccccctc ttggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttctggcc 540
ctgctttctt gcctgacagt gcccgcgtca gcc 573

```

<210> 107

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S18

<400> 107

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atgagcacia atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60
gacgttaagt tcccgggtgg cggtcagatc gttggtggag ttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttcg agcggtcgca acctcgcggt 180
agacgtcagc ctatcccaa ggcgcgtcgg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtcccc 300
cgtggctccc ggcctagctg gggccctaca gacccccggc gtaggtcgcg caatttgggc 360
aaagtcacg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgccccctc tcggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttctggcc 540
ctgctctctt gtctgactgt gcccgcgtca gct 573

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<210> 108

<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DR4

<400> 108
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gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcgcgctcg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtccccc 300
cgtggctctc ggctagctg gggccccaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg acaccctcac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc ttgggggcgc tgccagggcc ctggcgcagt gcgtccgagt tctggaagac 480
ggcgtgaact atgcaacagg gaatcttctt ggttgctctt tctctatctt ccttttggt 540
ttgctctctt gcttgaccgt gcccgcatcg gcc 573

<210> 109
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA10

<400> 109
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tctatctgtt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccag cccgagggca ggacctgggc ccagcccggg 240
tacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgtggctctc ggctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgccccct tagggggcgc tgccagggcc ttggcgcagt gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaatttgccc ggttgccctt tctctatctt cctcttggt 540
ttgctgtcct gtttaaccat cccagcttcc gct 573

<210> 110
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S45

<400> 110

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atgagcacga atcctaaacc tcaaagacaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcaca acctcgtgga 180
cggcgacaac ctatcccaa ggctcgccgg cccgaggga gggcctgggc ccagcccggg 240
catccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgtggctccc ggcctagttg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggatcatg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagagcc ttggcgcagc gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatctgccc ggttgctctt tctctatctt cctcttgggt 540
ctgctgtcct gcttgaccat cccagcttcc gct 573
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<210> 111

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 111

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccggggcg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgaggga gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caacgagggc ttgggggtggg caggatggct cctgtcacc 300
cgcggtcccc ggcctagttg gggccccacc gacccccggc gtaggtcgcg taatttgggt 360
aaggatcatg ataccctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc tagggggtgc tgccagggcc ctggcgcagc gcgtccgggt tctggaggac 480
ggcgtgaatt atgcaacagg gaatttgccc ggttgctctt tctctatctt cctcttgggt 540
ttgctgtcct gtttgaccat cccagcttcc gct 573
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<210> 112

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US6

<400> 112

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccggggcg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgaggga gggcctgggc tcagcccggg 240
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```

tacccttggc ccctctatgg caacgagggc atgggggtggg caggatggct cctgtcaccc 300
cgtggctccc ggcctagtgtg gggcccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ttggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt cctcttggct 540
ttgctgtcct gtttgacct tccagcttcc gct 573

```

<210> 113

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: P10

<400> 113

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca aa ggctcgccgg cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcaccc 300
cgtggctctc ggcctagtgtg gggcccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt cctcttggct 540
ttgctgtcct gcctgacct cccagcgtcc gct 573

```

<210> 114

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 114

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca aa ggctcgccgg cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc atgggggtggg caggatggct cctgtcaccc 300
cgcggtcttc ggcctagtgtg gggccccaac gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact acgcaacagg gaatttgccc ggttgctctt tctctatctt cctcttggct 540
ctggtgtcct gtttgacct cccagcttcc gcc 573

```


<210> 115
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T10

<400> 115
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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacagc ctatcccaaa ggctcgccag cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc atggggtggg caggatggct cctgtcacc 300
cgtggctccc ggcctagttg gggccccaca gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggct ctggcacatg gtgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatttgcgc ggttgctctt tttctatctt cctcttgggt 540
ctgctgtctt gtctgaccat cccagcttcc gct 573

<210> 116
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 116
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggccagatc gttggtggag ttacctgtt gccgcgcagg 120
ggcccccggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaaa ggctcgccag cccgagggca gggcctgggc tcagcctggg 240
tacccttggc ccctctatgg caatgagggc atgggatggg caggatggct cctgtcccc 300
cgcggtcttc ggcctagttg gggccccact gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ctggcgcgat gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaatctgccc ggttgctcct tttctatctt cctcttgggt 540
ttgctgtcct gtctgaccat cccagcttcc gct 573

<210> 117
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: IND3

<400> 117

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggagg tggccagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgag cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgagggtg gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgcggttctc ggcctagttg gggccccaca gacccccggc gtaggtcgcg taatttgggt 360
aaagtcatcg atacctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt ctttttagct 540
ttgctatcct gtttgaccat cccagcttcc gct 573
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<210> 118

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: IND8

<400> 118

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gacgtcaagt tcccgggagg tggccagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgag cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgagggtg gggcctgggc tcagcccggg 240
cacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgcggtcttc ggcctagttg gggccccaca gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg atacctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc tagggggtgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt ctttttggct 540
ttgctatcct gtttgaccgt cccagcttcc gct 573
```

<210> 119

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S9

<400> 119

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
```

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gacgttaagt tcccgggagg tggtcagatc gtcgggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcaactagg aagacttccg agcgggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccat cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctacgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgtggctctc ggcctagttg gggccccaat gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggtctt gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggct ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaacctcccc ggttgctctt tctctatctt ccttctggct 540
ttgctgtcct gtttgaccat cccagcttcc gct 573

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<210> 120

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 120

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggagg tggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgaccagg aagacttcag agcgggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccaa cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caacgagggc atgggggtggg caggatggct cctgtcacc 300
cgcggtctc ggcctaattg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggtgcccccc tagggggcgt tgccagagcc ttggcacatg gtgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatttaccg ggttgctctt tctctatctt cctcttggct 540
ttgctgtcct gcttgaccac cccagcttcc gct 573

```

<210> 121

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK5

<400> 121

```

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggagg tggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgaccagg aagacttccg agcgggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccga cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc atgggggtggg caggatggct cctgtcacc 300
catggctctc ggcctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420

```

```

ggcgcccccc tagggggcgt tgccagagcc ctggcacacg gtgtccgggt tctggaggac 480
ggcgtgaact acgcaacagg gaatatcccc ggttgctctt tctctatctt ccttttggct 540
ttgctgtcct gtctgaccac cccagtttcc gct 573

```

<210> 122

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK4

<400> 122

```

atgagcacga atcctaaacc tcaaagaaag accaaacgta acaccaaccg ccgcccacag 60
gacgttaagt tcccgggcgg tggccagatc gtcggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca ggctcgccaa cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc atgggggtggg caggatggct cctgtcacc 300
cgcggctctc ggcctagtgt gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgccccct tagggggcgt tgccagagcc ctggcacatg gtgtccgggt tgtggaggac 480
ggcgtgaact atgcaacagg gaatttgccc ggttgctctt tctctatctt cctcttggct 540
ctgctgtcct gtttgaccat cccagcttcc gct 573

```

<210> 123

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: P8

<400> 123

```

atgagcacga ctctaaacc tcaaagaaaa accaaacgta acaccagccg ccgcccacag 60
gacgttaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcgatcgca acctcgtggc 180
aggcgacaac ctatcccca ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
cacccttggc ccctctatgc caatgagggc ttgggggtggg cgggatggct cctgtcacc 300
cgcggctccc ggcctagtgt gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgt tgccagggcc ctggcgcatg gcgtccgggt tgtggaggac 480
ggcgtgaact atgcaacagg gaatctgcct ggttgctctt tctctatctt ccttttggct 540
ttgctgtctt gtctgaccat cccagcttcc gct 573

```

<210> 124

<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 124

```
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgttaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg cgacgagggc atgggggtggg caggatggct cctgtcacc 300
cgcggtcccc ggcctaattg gggccccaca gacccccggc gtaggtcgcg taatctgggt 360
aaggcatcgc ataccctcac atgcggcttc gccgacctca tggggtacat tccgtcgtc 420
ggcgctccct tagggggcgt tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaatt acgcaacagg gaatttgctt ggttgctctt tctctatctt cctcttgggt 540
ttgctgtcct gcttgacct cccagcttcc gct 573
```

<210> 125

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T4

<400> 125

```
atgagcacia atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg tcgcccacag 60
gacgttaagt tcccgggcgg cggccagatc gttggcggag tatacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccacgtggg 180
aggcgccagc ccatcccca agatcggcgc tccactggca agtcctgggg aaaaccagga 240
tatccctggc ccctgtatgg gaatgaggga ctcggtggg caggatggct cctgtcccc 300
cgaggttccc gtccctcctg gggccccaat gacccccggc ataggtcgcg caacgtgggt 360
aaggcatcgc ataccctaac gtgcagcctt gccgacctca tggggtacgt ccccgctgta 420
ggcggcccgt tgggtggcgt cgccagagct ctgcgcgatg gcgtgagagt cctggaggac 480
ggggttaatt atgcaacagg gaacttacct ggttgctcct tttctatctt cttgctggcc 540
ctactgtcct gcatcacat tccagtctcc gct 573
```

<210> 126

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US10

<400> 126

```
atgagcacia atcctaaacc tcaaagaaaa accaaaagaa acactaaccg tcgcccacia 60
gacgttaagt ttccggggcgg cggccagatc gttggcgagg tatacttggt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtecca gccacgtggg 180
aggcgccagc ccatcccaaa agatcggcgc cccactggca agtcctgggg aaaaccagga 240
tacccttggc ccctatatgg gaatgaggga ctcggtggg caggatggct cctgtcccc 300
cgaggttccc gtccctcttg gggccccact gatccccggc ataggtcgcg caacgtgggt 360
aaggtcatcg ataccctaac gtgcggcttt gccgacctca tgggatacat ccccgctcgt 420
ggcgctccgc ttggtggcgt cgccagagct ctcgcgcatg gcgtgagggt cctggaggac 480
gggggttaatt atgcaacagg gaacttacct ggttgctcct tttctatctt cttgctggcc 540
ttactgtcct gcatcaccat tccagtctct gct 573
```

<210> 127

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 127

```
atgagcacia atccaaaacc ccaaagaaaa accataagaa acaccaaccg tcgcccacag 60
gacgttaagt tcccgggcgg cggccagatc gttggcgagg tatacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cacgacaagg aagacttcgg agcggtecca gccacgtggg 180
aggcgccagc ccatcccaaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240
tacccttggc ctctatatgg gaatgaggga ctcggtggg cgggatggct cctgtcccc 300
cgaggttccc gtccctcttg gggccccagt gacccccggc ataggtcgcg caacgtgggt 360
aaggtcatcg ataccctaac gtgcggcttt gccgacctca tggggtacat ccccgctcgt 420
ggcgccccgc ttggtggcgt tgccagagct ctcgcgcacg gcgtgagagt cctggaggac 480
gggggttaatt atgcaacagg gaacctacct ggttgctcct tttctatctt cttgctggcc 540
ctactgtcct gcatcaccac tccggcctct gct 573
```

<210> 128

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T2

<400> 128

```
atgagcacia ttctaaacc tcaaagaaaa accaaaagaa acactaaccg tcgcccacia 60
gacgttaagt ttccggggcgg cggccagatc gttggcgagg tatacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtecca gcctcgtgga 180
aggcgccagc ccatccctaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240
```

tacccttggc	ccctgtatgg	gaatgagggg	ctcggctggg	caggatggct	cctgtcccc	300
cgaggttctc	gtccctcttg	gggcccgaat	gacccccggc	ataggctcgc	caatgtgggt	360
aaagtcatcg	ataccctaac	gtgcggcttt	gccgacctca	tggggtacat	ccccgtcgta	420
ggcgccccgc	ttgggtggtg	cgccagagct	cttgcgcatg	gcgtgagagt	cctggaggac	480
ggagttaatt	atgcaacagg	taacttaccc	ggttgctcct	tttctatctt	cttgctagcc	540
ctgctgtcct	gcatacctat	tccggtttca	gct			573

<210> 129

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T8

<400> 129

atgagcacaa	atcctaaacc	tcaaagaaaa	acaaaaagaa	acacaaaccg	ccgcccacag	60
gacgtcaagt	tcccgggtgg	cggccagatc	gttggcggag	tttacttgct	gccgcgcagg	120
ggccctaggt	tgggtgtgcg	cgcgacaagg	aagacttccg	agcgatccca	gccgcgtggg	180
agacgccagc	ccatcccga	agatcggcgc	tccaccggca	agtcctgggg	aaaaccagga	240
tatccttggc	ctctttacgg	aaacgagggc	tgcgggtggg	cagggttggt	cctgtcccc	300
cgcggtctc	gtcctacttg	gggccccact	gacccccggc	atagatcacg	taatttgggc	360
agagtcatcg	ataccattac	atgtggtttt	gccgacctca	tggggtacat	ccctgtcggt	420
ggcgccccgg	tcggaggcgt	cgccagagct	ctggcacatg	gtgttagggg	cctggaagac	480
gggataaact	atgcaacagg	gaatttgcct	ggttgctcct	tttctatctt	cttgcttgct	540
cttctgtcat	gcttcacagt	gccagtgctc	gca			573

<210> 130

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US1

<400> 130

atgagcacaa	atcctaaacc	tcaaagaaaa	acaaaaagaa	acacaaaccg	ccgcccacag	60
gacgtcaagt	tcccgggtgg	cggtcagatc	gttggcggag	tttacttgct	gccgcgcagg	120
ggccccaggt	tgggtgtgcg	cgcgacaagg	aagacttccg	agcgatccca	gccgcgtggg	180
agacgccagc	ccatcccga	agatcggcgc	tccaccggca	agtcctgggg	aaagccagga	240
tatccttggc	ctctgtacgg	aaacgagggc	tgcggctggg	cagggttggt	cctgtcccc	300
cgcggtctc	gtcctacttg	gggccccact	gacccccggc	acagatcacg	taacttgggc	360
aaggatcatg	ataccattac	gtgtggtttt	gccgacctca	tggggtacat	ccctgtcggt	420
ggcgccccgg	tcggaggcgt	cgccagagct	ctggcacacg	gtgttagggg	cctggaagac	480
gggataaatt	acgcaacagg	gaatctgcct	ggttgctcct	tttctatctt	cttacttgct	540
cttctgtcgt	gcgccacggg	gccgggtgtc	gca			573

<210> 131
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK11

<400> 131
atgagcacia atcctaaacc tcaaagaaaa accaaaagaa atacaaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cagcacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agccctgggg aaagccagga 240
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggct cctgtcccc 300
cgcggtctc atcctaattg gggccccact gacccccggc ataaatcacg caatttgggt 360
aaagtcatcg acaccattac gtgtggtttt gccgacctca tggggtacat ccctgtcgtc 420
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480
gggataaatt acgcaacagg gaatctgcct ggttgcctct tttctatctt cttacttgct 540
cttctgtcat gctgcacagt gccagtgtct gcg 573

<210> 132
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW3

<400> 132
atgagcacia atcctaaacc tcaaagaaaa accaaaagaa atacaaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaagccagga 240
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggct cctgtcccc 300
cgcggtctc atcctaattg gggccccact gacccccggc atagatcacg caatttgggc 360
aaagtcatcg acaccattac gtgtggtttt gccgacctca tggggtacat ccctgtcgct 420
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480
gggataaatt acgcaacagg gaatctgcct ggttgcctct tttctatctt cttacttgct 540
cttctgtcgt gcttcacagt gccagtgtct gcg 573

<210> 133
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 133

```
atgagcaciaa atcctaaacc tcaaagaaaa accaaaagaa acacaaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagtcttccg agcgatccca gccgcgtggg 180
aggcgccagc ccatcccga aagatcggcg tccaccggca agtcctgggg aaaaccggga 240
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggt cctgtcccc 300
cgcggtgttc gtccacttg gggccccact gacccccggc atagatcacg caatttgggc 360
aaagtcatcg acaccattac gtgtggtttt gccgacctca tggggtacat ccctgtcgtt 420
ggcgccccgg ttggaggcgt cgccagagct ctggcacacg gtgttaggg cctggaagac 480
gggataaatt acgcaacagg gaatttgcct gggtgtctct tttctatctt cttgcttgct 540
cttctgtcgt gctgcacagt gccagtgctt gcg 573
```

<210> 134

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 134

```
atgagcaciaa atcctaaacc tcaaagaaaa accaaaagaa acactaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggccagatc gttggcggag tatacttgct gccgcgcagg 120
ggcccgagat tgggtgtgcg cgcgacgagg aaaacttccg aacgggtcca gccacgtggg 180
aggcgccagc ccatccctaa agatcggcg accactggca agtcctgggg aaggccagga 240
tacccttggc ccctgtatgg gaatgagggc ctcggtggg cagggtggt cctgtcccc 300
cgcggttctc gcccttcacg gggccccacc gacccccggc ataaatcgcg caacttgggt 360
aaggtcatcg ataccctaac gtgcgggtttt gccgacctca tggggtacat acccgctcgtt 420
ggcgctcccg ttggcggcgt tgccagagcc ctgcgccatg ggggtagggg tctggaggac 480
gggataaatt atgcaacggg gaatttgcgc gggtgtctct tctctatctt tctcttggcc 540
ctcttgtctt gcctctctgt gccagtttcc gcc 573
```

<210> 135

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 135

```
atgagcacac ttctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60
```

```

gacgttaagt tcccgggtgg cggacagatc gttggtggag tatacgtggt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcgca gcctcgcgga 180
cgacgacagc ctatcccca ggcgcgtcgg agcgaaggcc ggtcctgggc tcagcccggg 240
tacccttggc ccctctatgg taacgagggc tgcggtggg caggatggct cctgtcccca 300
cgcggtccc gtccatcttg gggcccaaac gacccccggc gacgggtccc caatttgggt 360
aaagtcacg atacccttac gtgcggattc gccgacctca tggggtacat cccgctcgtc 420
ggcgctccc taggaggcgt cgcaagagcc ctgcgcgatg gcgtgagggc ccttgaagac 480
gggataaatt tcgcaacagg gaacttgccc ggttgctcct tttctatctt ccttcttgct 540
ctgttctctt gcttaattca tccagcagct agt 573

```

<210> 136

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 136

```

atgagcacac ttcctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60
gacgttaagt tcccgggtgg cggacagatc gttggtggag tatacgtggt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cgacgacagc ctatcccca ggcgcgtcgg agcgaaggcc ggtcctgggc tcagcccggg 240
tacccttggc ccctctatgg taatgagggc tgcggtggg cagggtggct cctgtcccca 300
cgcggtccc gtccatcttg gggcccaaac gacccccggc ggaggtccc caatttgggt 360
aaagtcacg atacccttac gtgcggattc gccgacctca tggggtacat cccgctcgtc 420
ggcgctccc taggaggcgt cgcaagagcc ctgcgcgatg gcgtgagggc ccttgaagac 480
gggataaatt ttgcaacagg gaacttgccc ggttgctcct tttctatctt ccttcttgct 540
ctgttctcct gcttagttca tcctgcagct agt 573

```

<210> 137

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S2

<400> 137

```

atgagcacac ttcctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60
gacatcaagt tcccgggtgg cggacagatc gttggtggag tatacgtggt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cggcgacagc ctatcccca ggcgcgtcgg agcgaaggcc gatcctgggc tcagcccggg 240
tacccttggc ccctctatgg taacgagggc tgcggtggg cagggtggct cctgtcccca 300
cgcggtccc gtccatcttg gggcccaaat gacccccggc ggaggtccc caatttgggt 360
aaagtcacg atacccttac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420

```

```

ggcgctcccg taggaggcgt cgcaagagcc ctcgcgcatg gcgtgagggc ccttgaagac 480
gggataaatt ttgcaacagg gaacttgccc ggttgctctt tttctatctt ccttcttgcc 540
ctgttctctt gcttaattca tccagcagct agt 573

```

```

<210> 138
<211> 573
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Individual Isolate: DK12

```

```

<400> 138
atgagcacac ttcctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60
gacgtcaagt tcccgggtgg cggacagatc gttggtggag tatacgtgtt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cggcgacagc ctatcccca aaggcgctcg agcgaaggcc ggtcctgggc tcagcctggg 240
tacccttggc ccctctatgg taacgagggc tgcgggtggg caggggtggct cctgtcccca 300
cgcggctccc gtccatcttg gggcccaaac gacccccggc ggaggtcccg caatttgggt 360
aaggtcatcg ataccctcac gtgcggattc gccgacctca tggggtacat cccgctcgtc 420
ggcgctcctg tagggggcgt cgcaagagcc ctcgcgcatg gcgtgagggc ccttgaagac 480
gggataaatt tcgcaacagg gaacttgccc ggttgctcct tttctatctt ccttcttgct 540
ctgttctctt gcctaattca tccagcagct agt 573

```

```

<210> 139
<211> 573
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Individual Isolate: Z4

```

```

<400> 139
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60
gacgtaaagt tcccgggtgg tggccagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcga aagacttcgg agcggtcgca acctcgtggc 180
aggcgtcaac ctatcccca aaggcgccag ccagagggca gatcctgggc gcagccccgg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg caggggtggct cctgtctcct 300
cgcggctctc ggccatcttg gggcccaa atgacccccggc ggagatcgcg caatctgggt 360
aaggtcatcg ataccctgac gtgcggcttc gccgacctca tgggatacat cccgatcgtg 420
ggcgcccccg tggggggcgt cgccagggct ctggcgcatg gcgtcagggc tgtggaggac 480
gggattaact atgcaacagg gaatcttccc ggttgctcct tctctatctt ccttttggca 540
cttctttcgt gcctcactgt tccagcgtcg gct 573

```

```

<210> 140

```

<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: Z8

<400> 140

```
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccctatg 60
gatgtaaaat tcccaggcgg cggccagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgactcgg aagacttcgg agcggtcgca acctcgtggc 180
aggcgtcagc ctatcccca aagcagtcgg tccgagggta ggtcctgggc tcagcccggg 240
taccatggc ctctttacgg taatgaaggc tgtgggtggg cagggtggct cctgtcccc 300
cgcggtcttc gaccgtcttg gggcccaaat gatccccggc ggaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tgggatacat cccgctcgtg 420
ggcgccccag taggaggcgt cgccagagcc ctggcgcagtg gcgtcagggc tgtggaggac 480
gggatcaact atgcaacagg gaaccttcct ggttgctctt tctctatctt cctcttggca 540
cttctctcgt gcctaaccgt cccagcgtct gct 573
```

<210> 141

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z1

<400> 141

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atgagcacia atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgccccatg 60
gatgtgaaat tcccgggcgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggcccccggt tgggtgtgcg cgcagctcgg aagacttcgg agcggtcaca acctcgtggc 180
aggcgtcagc ctatcccca aagcagtcgg tccgagggca ggtcctgggc tcagcccggg 240
tacccttggc ccctttacgg caatgagggc tgtgggtggg cagggtggct cctgtcccc 300
cgcggttcca ggccgtcttg gggcccaaat gatccccggc gtaggtcccg taatctgggt 360
aaagtcacg ataccctgac gtgtggcttc gccgacctca tgggatacat tccgctcgta 420
ggcgccccctg tgggtggcgt cgccagggcc ctggcgcagtg gcgtcagggc cgtggaggac 480
ggaattaact acgcaacagg gaaccttcct ggttgctctt tctctatctt tcttcttgca 540
cttctctcgt gcctgacaac accagcatct gcc 573
```

<210> 142

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z5

<400> 142

```
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg cgcgcccatg 60
gatgtaaaat tcccgggtgg tggtcagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcgg agcggtcgca acctcgcggc 180
aggcgtcagc ctatcccca ggcacgtcgg tccgaggga ggtcctgggc tcagcccggg 240
tacccttggc ctctttatgg caatgagggc tgtgggtggg cagggtggct cctgtcccc 300
cgcggtatctc ggccatcttg gggccaaaat gatccccggc gtaggtcccg caatctgggt 360
aaggatcatc ataccctgac gtgtggcttc gccgacctca tgggatacat tccgctcgtc 420
ggcgccccag taggtggcgt cgccagggcc ttggcgcagc gcgtcagggc cctggaggac 480
ggaatcaact atgcaacagg gaatcttcct ggttgctcct tttctatctt cctacttgca 540
cttttctcgt gcttgacaac accggcatcc gct 573
```

<210> 143

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z6

<400> 143

```
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg cgcgcccatg 60
gacgttaagt tcccgggtgg tggccagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttcgg agcggtcgca acctcgtggg 180
agacgccagc ctatcccaa ggcacgtcga tctgaggga ggtcctgggc tcagcccggg 240
tatccatggc ctctttacgg taatgagggg tgcgggtggg cgggatggct cctgtcacc 300
cgtggctctc gaccgtcttg gggtcctaat gatccccggc gaagggtccg caacttgggt 360
aaggatcatc atactctaac ttgcggtttc gccgatctca tgggatacat cccgctcgtc 420
ggcgcccccg tgggcggcgt cgccagggcc ctggcacatg gtgttagggc tgtggaggac 480
gggatcaatt atgcaacagg gaatcttccc ggttgctcct tctctatctt cctcttggca 540
cttctttcgt gcctaactgt tcccacctcg gcc 573
```

<210> 144

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z7

<400> 144

```
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg cgcgcccatg 60
gacgttaagt tcccgggcgg tggccagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccagat tgggtgtgcg cacaactagg aagacttcgg agcggtcgca acctcgtggg 180
agacgtcagc ctatcccaa ggcacgtcga tctgaggga ggtcctgggc tcaaccggg 240
```

```

taccatggc ctctttacgg taacgagggg tgcgggtggg caggatggct cttgtcacc 300
cgtggctctc gaccgtcttg gggcccaa atccccggc gaagggtccc caacttgggt 360
aaggatcatc atacccta acctgagctt gccgacctca tgggatacat cccgctcgta 420
ggcgcccccg tgggcgggcg cgccagggcc ctgagcgatg gcgttagggc tctggaggac 480
gggattaatt atgcaacagg gaaccttccc ggttgctctt tttctatctt cctcttggca 540
cttctttcgt gcctgactgt tcccgcctcg gcc

```

<210> 145

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 145

```

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cgccagatc gttggcgagg ttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgactagg aagacttcgg agcggtcgca acctcgtggg 180
aggcgccagc ctatcccaa ggcgcgcaa ctcgagggtg ggtcctgggc tcagcctggg 240
tattccttgg ccctttacgg caatgagggc tgcgggtggg cgggatggct cctgtcacc 300
cgtggctctc ggccgtcttg gggcccgaat gatccccggc ggagggtccc caacttgggt 360
aaggatcatc atacccta acctgagctt gccgacctca tgggatacat cccggtcgta 420
ggcgcccccg tgggtggcg cgccagagcc ctggcgcatg gcgtcaggct tctggaggac 480
ggggtaatt atgcaacagg gaatttccc ggttgctctt tctctatctt cctcttggca 540
ctgctctcgt gcctgactgt tcccgttcg gcc

```

<210> 146

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA4

<400> 146

```

atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgttaagt tcccgggagg tggtcagatc gttggtggag tctacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca acccgtggg 180
cgccgcccag ctattcccaa ggcgcgcaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggtggg cagggtgggt gctctcccc 300
cgaggctctc ggccctaatt gggcccgaat gacccccggc gaaagtcgcg caatttgggt 360
aaggatcatc atacccta acctgagctt gccgacctca tggggtacat cccgctcgta 420
ggcgcccccg ttggggcggt cgcaagggcc ctgacacatg gtgtgagggt tcttgaggac 480
ggggtaaaat atgcaacggg gaatttggcc ggttgctctt tctctatctt tacccttgca 540
cttctctcgt gcctgacctg cccggcctct gca

```

<210> 147
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA5

<400> 147
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag ttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca acccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggtggg caggggtggt gctctcccc 300
cgaggctctc ggcctaattg gggccccaat gaccccgcc gaaaatcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcgcccccg ttgggggcgt cgcaagggcc ctgcacatg gtgtgagggt tcttgaggac 480
ggggtaaact atgcaacagg gaatttgcgc ggttgctctt tctctatctt tacccttgca 540
cttctctcgt gcttgaccgt cccagcctct gca 573

<210> 148
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA7

<400> 148
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag ttacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca acccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggtggg caggggtggt gctctcccc 300
cgaggctctc ggcctaattg gggccccaat gaccccgcc gaaagtcgcg caatttgggt 360
aaggtcatcg acaccctaac atgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcgcccccg ttgggggcgt cgcaagggct ctgcacacg gtgtgagggt tcttgaggac 480
ggggtaaatt acgcaacagg gaatctgcgc ggttgctctt tctctatctt tacccttgca 540
cttctctcgt gcttgaccgt cccagcctcc gca 573

<210> 149
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 149

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atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaacct ccgcccacag 60
gacgtcaagt tcccgggagg tggtcagatc gttggaggag ttacttggt gccgcgagg 120
ggccccaggt tgggtgtgag cgcgactcgg aagacttcgg aacggtcgca acccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggt ccctttacgc caatgagggc ctggggggg caggggtggt gctctcccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc ggaagtcgag caatttgggt 360
aaggatcatg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcgggcccg ttggggggcg cgcaagggct ctgcacacg gtgtgagggt tcttgaggac 480
ggggtaaaact acgcaacagg gaatttgccc ggttgctctt tctctatctt tacccttgca 540
cttctttcct gtctgatcat cccggcctct gca 573
```

<210> 150

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA3

<400> 150

```
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggagg tggtcagatc gttggaggag ttacttggt gccgcgagg 120
ggccccaggt tgggtgtgag cgcgactcgg aagacttcag aacggtcgca acccgtgga 180
cggcgccagc ctattcccaa ggctcgccag cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggt ccctttacgc caatgagggc ctgagtgagg caggggtggt gctctcccc 300
cgaggctctc ggcctagttg gggccccaac gacccccggc ggaaatcgag caatttgggt 360
aaggatcatg ataccctaac gtgcggattc gccgatctca tggggtacat cccgctcgta 420
ggcgggcccg ttggggggcg cgcaagggct ctgcacatg gtgtgagggt tcttgaggac 480
ggggtaaaact acgcaacagg gaatttaccg ggttgctctt tctctatctt tacccttgca 540
cttctttcat gctgaccgt cccggcctct gca 573
```

<210> 151

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA13

<400> 151

```
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
```



```

gacgtcaagt tcccgggcg tggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcaactcgg aagacttcag aacggtcgca acccgtgga 180
cggcgctcagc ctatcccaa ggcgcgccag cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttatgc caatgagggc ctcggtggg cagggtggtt gctctcccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc ggaaatcgcg caacttgggt 360
aaggtcatcg ataccctgac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggctg cgcaagggct ctgcacacg gtgtgagggt ccttgaggac 480
ggggtaaaact atgcaacagg gaatttacc gggtgctctt tctctatctt tatccttgca 540
cttctttcat gcctgactgt cccgacctct gcc 573

```

<210> 152

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA6

<400> 152

```

atgagcacga atcctaaacc tcaaagaaaa acccaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcg tggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctcgta tgggtgtgcg cgcgactcgg aagacttcgg aacggtcgca acccgtgga 180
cggcgctcagc ctattcccaa ggcgcgccaa tccgcggggc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggtggg cagggtggtt gctctcccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc gaaaatcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggctg cgcaagggct ctgcacacg gtgtgagggt tcttgaggac 480
ggggtaaaact atgcaacagg gaatttgccc gggtgctctt tctctatctt tgccttgca 540
cttctctcgt gcctaaccgt ccctgcctct gca 573

```

<210> 153

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA11

<400> 153

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atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcg tggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca acccgtggg 180
cggcgctcagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccttttacgc caatgagggc ctcggtggg cagggtggtt gctctccct 300
cgaggctctc ggcctaactg gggccccaat gacccccggc gaagatcgcg caatttgggc 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420

```

ggcggccccc ttgggggctg cgcaagggcc ctgcgacacg gtgtgagagc tcttgaggac 480
 ggggtaaatt atgcaacagg gaatcttccc ggttgctctt tctccatctt tatccttgca 540
 cttctctcgt gcttgaccgt cccggccact gca 573

<210> 154

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 154

atgagcacac ttccaaaacc ccaaagaaaa accaaaagaa acaccaaccg tcgcccacac 60
 gacgtcaagt tcccgggtgg cggtcagatc gttggcggag tttacttggt gccgcgcagg 120
 ggcccccggt tgggtgtgcg cgcgacgaga aagacttccg agcgatccca gccagaggc 180
 aggcgccaac ctataccaaa ggcgcgccag ccccagggca ggcactgggc tcagcccggga 240
 tacccttggc ctctttatgg aaacgagggc tgtgggtggg caggttggct cctgtcccc 300
 cgcggtctcc ggccacattg gggccccaat gacccccggc gtcgatcccg gaatttgggt 360
 aaggtcatcg ataccctaac gtgtgggttc gccgatctca tggggtacat tcccgctcgtg 420
 ggcgcgcctt tgggcggcgt cgcggctgcg ctgcgacatg gcgtgagggc aatcgaggac 480
 gggatcaatt atgcaacagg gaatctcccc ggttgctctt tctctatctt ctttttgga 540
 ctactctcgt gcctcacaac gccagcttcg gct 573

<210> 155

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK7

<400> 155

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Pro Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly

65		70		75		80									
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Thr	Asp	Pro
			100					105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Leu
	130					135					140				
Gly	Gly	Ala	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165				170					175		
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 156
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: US11

<400> 156
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 157

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S14

<400> 157

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 158

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW1

<400> 158

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro

100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu		
130	135	140
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala		
180	185	190

<210> 159
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S18

<400> 159

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 160

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DR4

<400> 160

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
 130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
 180 185 190

<210> 161

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA10

<400> 161

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu

130	135	140
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155 160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Pro Phe Ser Ile		
	165	170 175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala		
	180	185 190

<210> 162
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S45

<400> 162

Met Ser Thr Asn Pro Lys Pro Gln Arg Ala Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80
His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
 180 185 190

<210> 163

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 163

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
 130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 164

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US6

<400> 164

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile

165

170

175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
 180 185 190

<210> 165

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: P10

<400> 165

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
 130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 166

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 166

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 167
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T10

<400> 167
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 168
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 168

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Lys	Ala	Arg	Gln	Pro	Glu	Gly	Arg	Ala	Trp	Ala	Gln	Pro	Gly
65					70					75				80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Met	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Thr	Asp	Pro
			100					105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Leu
	130					135					140				
Gly	Gly	Ala	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165				170						175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Ile	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 169
<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: IND3

<400> 169

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 170

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: IND8

<400> 170

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 171

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S9

<400> 171

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg His Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 172

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 172

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala
180 185 190

<210> 173

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK5

<400> 173

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

1	5	10	15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly			
20	25	30	
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala			
35	40	45	
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro			
50	55	60	
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly			
65	70	75	80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp			
85	90	95	
Leu Leu Ser Pro His Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro			
100	105	110	
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys			
115	120	125	
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu			
130	135	140	
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp			
145	150	155	160
Gly Val Asn Tyr Ala Thr Gly Asn Ile Pro Gly Cys Ser Phe Ser Ile			
165	170	175	
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Val Ser Ala			
180	185	190	

<210> 174

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK4

<400> 174

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 175

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: P8

<400> 175

Met Ser Thr Thr Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ser
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

His Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 176

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 176

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala

35	40	45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro		
50	55	60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly		
65	70	75 80
Tyr Pro Trp Pro Leu Tyr Gly Asp Glu Gly Met Gly Trp Ala Gly Trp		
85	90	95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro		
100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu		
130	135	140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155 160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala		
180	185	190

<210> 177

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T4

<400> 177

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Ser Leu Ala Asp Leu Met Gly Tyr Val Pro Val Val Gly Gly Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
180 185 190

<210> 178

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US10

<400> 178

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Pro Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
180 185 190

<210> 179

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 179

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Ile Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly

65		70		75		80									
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Ser	Asp	Pro
			100					105					110		
Arg	His	Arg	Ser	Arg	Asn	Val	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
		115					120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Val	Val	Gly	Ala	Pro	Leu
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Ile	Thr	Thr	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 180

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T2

<400> 180

Met	Ser	Thr	Ile	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Lys	Asp	Arg	Arg	Ser	Thr	Gly	Lys	Ser	Trp	Gly	Lys	Pro	Gly
65					70					75				80	

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
180 185 190

<210> 181

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T8

<400> 181

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Leu Gly Arg Val Ile Asp Thr Ile Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala
180 185 190

<210> 182

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US1

<400> 182

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro

100	105	110
Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val		
130	135	140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155
Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Ala Thr Val Pro Val Ser Ala		
180	185	190

<210> 183
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK11

<400> 183

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Pro Trp Gly Lys Pro Gly
65 70 75 80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Cys Thr Val Pro Val Ser Ala
180 185 190

<210> 184

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW3

<400> 184

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala
 180 185 190

<210> 185

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 185

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Ser Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro
 100 105 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val

130 135 140
 Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160
 Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175
 Phe Leu Leu Ala Leu Leu Ser Cys Cys Thr Val Pro Val Ser Ala
 180 185 190

 <210> 186
 <211> 191
 <212> PRT
 <213> Homo sapiens

 <220>
 <223> Individual Isolate: S83

 <400> 186
 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15
 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30
 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45
 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60
 Ile Pro Lys Asp Arg Arg Thr Thr Gly Lys Ser Trp Gly Arg Pro Gly
 65 70 75 80
 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95
 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110
 Arg His Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125
 Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Ser Val Pro Val Ser Ala
180 185 190

<210> 187

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 187

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
180 185 190

<210> 188

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 188

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile

	165	170	175
Phe	Leu	Leu	Ala
Leu	Phe	Ser	Cys
Leu	Val	His	Pro
Ala	Ala	Ser	
180	185	190	

<210> 189
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S2

<400> 189

Met	Ser	Thr	Leu	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Ile
1				5					10					15	
Arg	Arg	Pro	Gln	Asp	Ile	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20						25					30	
Gly	Val	Tyr	Val	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35						40					45		
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
		50						55					60		
Ile	Pro	Lys	Ala	Arg	Arg	Ser	Glu	Gly	Arg	Ser	Trp	Ala	Gln	Pro	Gly
		65					70				75				80
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
							85				90				95
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Asn	Asp	Pro
							100				105			110	
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
							115				120			125	
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Val
							130					135			140
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Ala	Leu	Glu	Asp
							145				150			155	160
Gly	Ile	Asn	Phe	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
							165				170			175	

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
180 185 190

<210> 190

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK12

<400> 190

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
180 185 190

<210> 191
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: Z4

<400> 191

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Met	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Lys	Ala	Arg	Gln	Pro	Glu	Gly	Arg	Ser	Trp	Ala	Gln	Pro	Gly
65					70					75				80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
			85					90					95		
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Asn	Asp	Pro
		100						105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
		115					120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Ile	Val	Gly	Ala	Pro	Val
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Ala	Val	Glu	Asp
145					150					155				160	
Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
			165					170						175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Ala	Ser	Ala	
		180						185					190		

<210> 192
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: Z8

<400> 192

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
 145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
 180 185 190

<210> 193
 <211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z1

<400> 193

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Ala Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala
180 185 190

<210> 194

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z5

<400> 194

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Gln Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Gln Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Thr Thr Pro Ala Ser Ala
180 185 190

<210> 195

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z6

<400> 195

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Thr Ser Ala
180 185 190

<210> 196

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z7

<400> 196

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 197

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 197

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

1	5	10	15
Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly			
20	25	30	
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala			
35	40	45	
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro			
50	55	60	
Ile Pro Lys Ala Arg Gln Leu Glu Gly Arg Ser Trp Ala Gln Pro Gly			
65	70	75	80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp			
85	90	95	
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro			
100	105	110	
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys			
115	120	125	
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val			
130	135	140	
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Leu Leu Glu Asp			
145	150	155	160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile			
165	170	175	
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala			
180	185	190	

<210> 198

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA4

<400> 198

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 199

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA5

<400> 199

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
 100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
 180 185 190

<210> 200

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA7

<400> 200

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala

35					40					45						
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro	
50					55					60						
Ile	Pro	Lys	Ala	Arg	Gln	Pro	Thr	Gly	Arg	Ser	Trp	Gly	Gln	Pro	Gly	
65					70					75					80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Ala	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp	
85					90					95						
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Asn	Trp	Gly	Pro	Asn	Asp	Pro	
100					105					110						
Arg	Arg	Lys	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys	
115					120					125						
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Gly	Pro	Val	
130					135					140						
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp	
145					150					155					160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile	
165					170					175						
Phe	Ile	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Ala	Ser	Ala		
180					185					190						

<210> 201

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 201

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn	
1				5					10					15		
Leu	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly	
20					25					30						
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala	
35					40					45						

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
 100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Ile Ile Pro Ala Ser Ala
 180 185 190

<210> 202

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA3

<400> 202

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Glu Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 203

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA13

<400> 203

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly

65		70		75		80									
Tyr	Pro	Trp	Pro	Leu	Tyr	Ala	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp
			85						90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Asn	Trp	Gly	Pro	Asn	Asp	Pro
			100					105					110		
Arg	Arg	Lys	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
		115					120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Gly	Pro	Val
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Ile	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Thr	Ser	Ala	
		180						185					190		

<210> 204
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SA6

<400> 204
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Gln Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Met Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Gln Ser Ala Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Val Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 205

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA11

<400> 205

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Phe Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Thr Ala
180 185 190

<210> 206

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 206

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Thr Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Gln Gly Arg His Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro His Trp Gly Pro Asn Asp Pro

100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu		
130	135	140
Gly Gly Val Ala Ala Ala Leu Ala His Gly Val Arg Ala Ile Glu Asp		
145	150	155
Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala		
180	185	190

<210> 207
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 207
 gcgtccgggt tctggaagac ggcgtgaact atgcaacagg 40

<210> 208
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 208
 aggctttcat tgcagttcaa ggccgtgcta ttgatgtgcc 40

<210> 209
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 209
 aagacggcgt gaactatgca acaggaacc ttctggttg 40

<210> 210
 <211> 40
 <212> DNA

<213> Homo sapiens

<400> 210

agttcaaggc cgtgctattg atgtgccaac tgccgttggt

40

<210> 211

<211> 40

<212> DNA

<213> Homo sapiens

<400> 211

aagacggcgt gaattctgca acaggaacc ttcttggtg

40

<210> 212

<211> 40

<212> DNA

<213> Homo sapiens

<400> 212

agttcaaggc cgtggaattc atgtgccaac tgccgttggt

40

<210> 213

<211> 42

<212> DNA

<213> Homo sapiens

<400> 213

arctycgacg tyacatcgay ctgctygtyg gragygccac cc

42

<210> 214

<211> 31

<212> DNA

<213> Homo sapiens

<400> 214

rcargccrtc ttggayatga tcgctggwgc y

31

<210> 215

<211> 42

<212> DNA

<213> Homo sapiens

<400> 215

cratacgacr ycaygctcgay ttgctcgttg gggcggctry yt 42

<210> 216
<211> 31
<212> DNA
<213> Homo sapiens

<400> 216
rcaagctrctc rtggayrtgg trrcrggrgc c 31

<210> 217
<211> 40
<212> DNA
<213> Homo sapiens

<400> 217
ttgcggackc acatygacat ggytgatg tccgccacgc 40

<210> 218
<211> 43
<212> DNA
<213> Homo sapiens

<400> 218
gatgcgcgtt cccgaggtca tcwtagacat crtyrgcggr gcd 43

<210> 219
<211> 54
<212> DNA
<213> Homo sapiens

<400> 219
aatggcacccy tgcrcctgctg gatacaagtr acacctaagtg tggctgtgaa acac 54

<210> 220
<211> 31
<212> DNA
<213> Homo sapiens

<400> 220
tgarctagyc ctysargtyg tcttcggygg y 31

<210> 221
 <211> 54
 <212> DNA
 <213> Homo sapiens

 <400> 221
 gccaacgtct ctcgatgttg ggtgccggtt gcccacaatc tcgccataag tcaa 54

 <210> 222
 <211> 46
 <212> DNA
 <213> Homo sapiens

 <400> 222
 aagggcctgc gagcacacat cgatatcatc gtgatgtctg ctacgg 46

 <210> 223
 <211> 45
 <212> DNA
 <213> Homo sapiens

 <400> 223
 ttggtgcgca tcccggaagt catcttgat attgttacag gaggt 45

 <210> 224
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 224
 agtcaggtag gtcggagcaa ccaccgcytc gatcgcagt 40

 <210> 225
 <211> 46
 <212> DNA
 <213> Homo sapiens

 <400> 225
 agccttcacg ttcagacckc gtcgccatca aacrgtccag acctgt 46

 <210> 226
 <211> 75
 <212> DNA

<213> Homo sapiens

<400> 226

tccccgcgcyg tgggtatggt ggtrgcgcac rtyctgcgdy tgccccagac cktgttygac 60
atamtrgcyg gggcc 75

<210> 227

<211> 39

<212> DNA

<213> Homo sapiens

<400> 227

acgccggtga cgcctacagt ggctgtcgca caccggggc 39

<210> 228

<211> 42

<212> DNA

<213> Homo sapiens

<400> 228

atgagggtcc ccacagcctt tctcgacatg gttgccggag gc 42

<210> 229

<211> 40

<212> DNA

<213> Homo sapiens

<400> 229

cgcgccctat cccaacgcac cgttagagtc catgcgcagg 40

<210> 230

<211> 49

<212> DNA

<213> Homo sapiens

<400> 230

tcagatctta cggatcccct ctatcctagg tgacttgctc accgggggt 49

<210> 231

<211> 54

<212> DNA

<213> Homo sapiens

<400> 231
cagtcacgct gctgggtggc ccttactccc accgtggcgg ygyccttatat cggt 54

<210> 232
<211> 31
<212> DNA
<213> Homo sapiens

<400> 232
tagcactctg gtrgayctac tcrctggagg g 31

<210> 233
<211> 54
<212> DNA
<213> Homo sapiens

<400> 233
aagtctacat gctgggtgtc tctcaccccc accgtggctg cgcaacatct gaat 54

<210> 234
<211> 31
<212> DNA
<213> Homo sapiens

<400> 234
aggcgccatg gtcgacctgc ttgcaggcgg c 31

<210> 235
<211> 43
<212> DNA
<213> Homo sapiens

<400> 235
tcagccccga vyytcggagc ggtcacggct cctcttcgga ggg 43

<210> 236
<211> 44
<212> DNA
<213> Homo sapiens

<400> 236
tgytacggat yccccargtg gtcathgaca tcatwgccgg ggsc 44

<210> 237
<211> 40
<212> DNA
<213> Homo sapiens

<400> 237
cataccaaat gcttcacgc ccgcaacggg attccgcagg 40

<210> 238
<211> 37
<212> DNA
<213> Homo sapiens

<400> 238
tcttcttgcg ggcgccgcag tggtttgctc atccctg 37

<210> 239
<211> 52
<212> DNA
<213> Homo sapiens

<400> 239
atctagcatc ttgagggtag ctgagatttg tgcgagtgtg atatttggtg gc 52

<210> 240
<211> 33
<212> PRT
<213> Homo sapiens

<400> 240
Trp Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu
1 5 10 15

Thr His Asn Leu Arg Xaa His Xaa Asp Xaa Ile Val Met Ala Ala Thr
20 25 30

Val

<210> 241
<211> 33
<212> PRT
<213> Homo sapiens

<400> 241

Trp Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu
1 5 10 15

Thr Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr
20 25 30

Val

<210> 242

<211> 33

<212> PRT

<213> Homo sapiens

<400> 242

Trp Ile Pro Val Xaa Pro Asn Val Ala Val Xaa Xaa Pro Gly Ala Leu
1 5 10 15

Thr Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr
20 25 30

Leu

<210> 243

<211> 33

<212> PRT

<213> Homo sapiens

<400> 243

Trp Thr Xaa Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr
1 5 10 15

Thr Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr
20 25 30

Xaa

<210> 244

<211> 33

<212> PRT

<213> Homo sapiens

<400> 244

Trp Val Ala Leu Xaa Pro Thr Leu Ala Ala Arg Asn Xaa Xaa Xaa Xaa
1 5 10 15

Thr Xaa Xaa Ile Arg Xaa His Val Asp Leu Leu Val Gly Ala Ala Xaa
20 25 30

Phe

<210> 245

<211> 33

<212> PRT

<213> Homo sapiens

<400> 245

Trp Val Xaa Xaa Xaa Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro
1 5 10 15

Xaa Xaa Gln Leu Arg Arg Xaa Ile Asp Leu Leu Val Gly Ser Ala Thr
20 25 30

Leu

<210> 246

<211> 33

<212> PRT

<213> Homo sapiens

<400> 246

Trp Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro
1 5 10 15

Leu Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Leu

<210> 247

<211> 33

<212> PRT

<213> Homo sapiens

<400> 247

Trp Val Ala Leu Thr Pro Thr Val Ala Xaa Xaa Tyr Ile Gly Ala Pro
1 5 10 15

Leu Xaa Ser Xaa Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Val

<210> 248

<211> 33

<212> PRT

<213> Homo sapiens

<400> 248

Trp Val Ser Leu Thr Pro Thr Val Ala Ala Gln His Leu Asn Ala Pro
1 5 10 15

Leu Glu Ser Leu Arg Arg His Val Asp Leu Met Val Gly Gly Ala Thr
20 25 30

Leu

<210> 249

<211> 33

<212> PRT

<213> Homo sapiens

<400> 249

Trp Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro
1 5 10 15

Leu Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Met

<210> 250

<211> 33

<212> PRT

<213> Homo sapiens

<400> 250

Trp Val Xaa Ile Thr Pro Thr Leu Ser Ala Pro Xaa Xaa Gly Ala Val
1 5 10 15

Thr Ala Pro Leu Arg Arg Xaa Val Asp Tyr Leu Ala Gly Gly Ala Ala
20 25 30

Leu

<210> 251

<211> 33

<212> PRT

<213> Homo sapiens

<400> 251

Trp His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro
1 5 10 15

Ala Thr Gly Phe Arg Arg His Val Asp Leu Leu Ala Gly Ala Ala Val
20 25 30

Val

<210> 252

<211> 23

<212> PRT

<213> Homo sapiens

<400> 252

Thr Leu Thr Met Ile Leu Ala Tyr Ala Ala Arg Val Pro Glu Leu Xaa
1 5 10 15

Leu Xaa Val Val Phe Gly Gly
20

<210> 253

<211> 23

<212> PRT

<213> Homo sapiens

<400> 253

Thr Thr Thr Met Leu Leu Ala Tyr Leu Val Arg Ile Pro Glu Val Ile

1 5 10 15

Leu Asp Ile Val Thr Gly Gly
20

<210> 254
<211> 23
<212> PRT
<213> Homo sapiens

<400> 254
Thr Xaa Thr Xaa Ile Leu Ala Tyr Xaa Met Arg Val Pro Glu Val Ile
1 5 10 15

Xaa Asp Ile Xaa Xaa Gly Ala
20

<210> 255
<211> 23
<212> PRT
<213> Homo sapiens

<400> 255
Ala Val Gly Met Val Val Ala His Xaa Leu Arg Leu Pro Gln Thr Xaa
1 5 10 15

Phe Asp Ile Xaa Ala Gly Ala
20

<210> 256
<211> 23
<212> PRT
<213> Homo sapiens

<400> 256
Thr Xaa Ala Leu Val Xaa Ser Gln Leu Leu Arg Xaa Pro Gln Ala Xaa
1 5 10 15

Xaa Asp Xaa Val Xaa Gly Ala
20

<210> 257
<211> 23
<212> PRT

<213> Homo sapiens

<400> 257

Thr Xaa Ala Leu Val Xaa Ala Gln Leu Leu Arg Xaa Pro Gln Ala Xaa
1 5 10 15

Leu Asp Met Ile Ala Gly Ala
20

<210> 258

<211> 23

<212> PRT

<213> Homo sapiens

<400> 258

Thr Thr Thr Leu Leu Leu Ala Gln Ile Met Arg Val Pro Thr Ala Phe
1 5 10 15

Leu Asp Met Val Ala Gly Gly
20

<210> 259

<211> 23

<212> PRT

<213> Homo sapiens

<400> 259

Thr Thr Thr Leu Xaa Leu Ala Gln Val Met Arg Ile Pro Ser Thr Leu
1 5 10 15

Val Asp Leu Leu Xaa Gly Gly
20

<210> 260

<211> 23

<212> PRT

<213> Homo sapiens

<400> 260

Thr Ala Thr Leu Val Leu Ala Gln Leu Met Arg Ile Pro Gly Ala Met
1 5 10 15

Val Asp Leu Leu Ala Gly Gly
20

<210> 261
<211> 23
<212> PRT
<213> Homo sapiens

<400> 261
Thr Ser Ala Leu Ile Met Ala Gln Ile Leu Arg Ile Pro Ser Ile Leu
1 5 10 15
Gly Asp Leu Leu Thr Gly Gly
20

<210> 262
<211> 23
<212> PRT
<213> Homo sapiens

<400> 262
Xaa Thr Ala Leu Xaa Met Ala Gln Xaa Leu Arg Ile Pro Gln Val Val
1 5 10 15
Ile Asp Ile Ile Ala Gly Xaa
20

<210> 263
<211> 23
<212> PRT
<213> Homo sapiens

<400> 263
Thr Thr Thr Leu Val Leu Ser Ser Ile Leu Arg Val Pro Glu Ile Cys
1 5 10 15
Ala Ser Val Ile Phe Gly Gly
20

<210> 264
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)

<223> "Thr" or "Pro"

<400> 264

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	

Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		

Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			

Xaa	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				

Ile	Pro	Lys	Ala	Arg	Arg	Pro	Glu	Gly	Arg	Thr	Trp	Ala	Gln	Pro	Gly
65					70					75					80

Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	

Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Thr	Asp	Pro
			100					105						110	

Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			

Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Leu
	130					135					140				

Gly	Gly	Ala	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	

Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	

Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 265

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> "Thr" or "Asn"

<220>

<221> SITE

<222> (10)

<223> "Lys" or "Gln"

<220>

<221> SITE

<222> (16)

<223> "Ser" or "Asn"

<220>

<221> SITE

<222> (70)

<223> "Arg" or "His" or "Gln"

<220>

<221> SITE

<222> (75)

<223> "Ala" or "Thr"

<220>

<221> SITE

<222> (81)

<223> "His" or "Tyr"

<220>

<221> SITE

<222> (87)

<223> "Ala" or "Gly"

<220>

<221> SITE

<222> (88)

<223> "Asn" or "Asp"

<220>

<221> SITE

<222> (91)

<223> "Leu" or "Met"

<220>

<221> SITE

<222> (101)

<223> "Arg" or "His"

<220>

<221> SITE
<222> (106)
<223> "Ser" or "Asn"

<220>
<221> SITE
<222> (110)
<223> "Thr" or "Asn"

<220>
<221> SITE
<222> (142)
<223> "Gly" or "Ala"

<220>
<221> SITE
<222> (147)
<223> "Val" or "Ala"

<220>
<221> SITE
<222> (158)
<223> "Val" or "Leu"

<220>
<221> SITE
<222> (169)
<223> "Leu" or "Ile"

<220>
<221> SITE
<222> (173)
<223> "Ser" or "Pro"

<220>
<221> SITE
<222> (187)
<223> "Ile" or "Val" or "Thr"

<220>
<221> SITE
<222> (189)
<223> "Ala" or "Val"

<400> 265
Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa
1 5 10 15

Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly			
			20					25					30					
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala			
		35					40					45						
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro			
		50					55				60							
Ile	Pro	Lys	Ala	Arg	Xaa	Pro	Glu	Gly	Arg	Xaa	Trp	Ala	Gln	Pro	Gly			
		65				70				75					80			
Xaa	Pro	Trp	Pro	Leu	Tyr	Xaa	Xaa	Glu	Gly	Xaa	Gly	Trp	Ala	Gly	Trp			
				85					90					95				
Leu	Leu	Ser	Pro	Xaa	Gly	Ser	Arg	Pro	Xaa	Trp	Gly	Pro	Xaa	Asp	Pro			
			100					105					110					
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys			
			115				120					125						
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Xaa	Pro	Leu			
		130				135					140							
Gly	Gly	Xaa	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Xaa	Glu	Asp			
		145				150				155				160				
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Xaa	Pro	Gly	Cys	Xaa	Phe	Ser	Ile			
				165					170					175				
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Xaa	Pro	Xaa	Ser	Ala				
			180					185					190					

<210> 266

<211> 191

<212> PRT

<213> Homo sapiens

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<223> "Tyr" or "His"

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<223> "Gly" or "Ala"

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<220>
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<223> "Ser" or "Pro"

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<220>
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<400> 266
Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly

20					25					30					
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
35					40					45					
Xaa	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
50					55					60					
Ile	Pro	Lys	Ala	Arg	Xaa	Pro	Glu	Gly	Arg	Xaa	Trp	Ala	Gln	Pro	Gly
65					70					75					80
Xaa	Pro	Trp	Pro	Leu	Tyr	Xaa	Xaa	Glu	Gly	Xaa	Gly	Trp	Ala	Gly	Trp
85					90					95					
Leu	Leu	Ser	Pro	Xaa	Gly	Ser	Arg	Pro	Xaa	Trp	Gly	Pro	Xaa	Asp	Pro
100					105					110					
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
115					120					125					
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Xaa	Pro	Leu
130					135					140					
Gly	Gly	Xaa	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Xaa	Glu	Asp
145					150					155					160
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Xaa	Pro	Gly	Cys	Xaa	Phe	Ser	Ile
165					170					175					
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Xaa	Pro	Xaa	Ser	Ala	
180					185					190					

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<220>
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<223> "Ala" or "Val"

<400> 267
Met Ser Thr Xaa Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Xaa Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Xaa Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Val Val Gly Xaa Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Xaa Pro Xaa Ser Ala
180 185 190

<210> 268

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<220>

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<223> "Thr" or "Ala"

<220>

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<222> (52)

<223> "Thr" or "Ser"

<220>

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<222> (75)

<223> "Pro" or "Ser"

<220>

<221> SITE

<222> (104)

<223> "His" or "Arg"

<220>

<221> SITE

<222> (106)

<223> "Asn" or "Thr"

<220>

<221> SITE

<222> (115)

<223> "Lys" or "Arg"

<220>

<221> SITE

<222> (121)

<223> "Lys" or "Arg"

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<221> SITE

<222> (185)

<223> "Cys" or "Phe" or "Ala"

<400> 268

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
35 40 45

Thr Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Xaa Trp Gly Lys Pro Gly
65 70 75 80

Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Xaa	Pro	Xaa	Trp	Gly	Pro	Thr	Asp	Pro
			100					105					110		
Arg	His	Xaa	Ser	Arg	Asn	Leu	Gly	Xaa	Val	Ile	Asp	Thr	Ile	Thr	Cys
		115					120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Val	Val	Gly	Ala	Pro	Val
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Xaa	Thr	Val	Pro	Val	Ser	Ala	
			180					185					190		

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<223> "Ile" or "Val"

<220>
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<223> "Ala" or "Gly"

<220>
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<223> "Val" or "Leu"

<220>
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<222> (162)
<223> "Ile" or "Val"

<220>
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<222> (185)
<223> "Cys" or "Phe" or "Ala" or "Ile"

<220>
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<222> (186)
<223> "Thr" or "Ser"

<220>
<221> SITE

<222> (187)

<223> "Val" or "Ile" or "Thr"

<220>

<221> SITE

<222> (189)

<223> "Val" or "Ala"

<400> 269

Met	Ser	Thr	Xaa	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Xaa	Arg	Asn	Thr	Asn
1				5					10					15	

Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		

Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Xaa
		35					40					45			

Thr	Arg	Lys	Xaa	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				

Ile	Pro	Lys	Asp	Arg	Arg	Xaa	Thr	Gly	Lys	Xaa	Trp	Gly	Xaa	Pro	Gly
65					70					75					80

Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Xaa	Gly	Trp	Ala	Gly	Trp
				85					90					95	

Leu	Leu	Ser	Pro	Arg	Gly	Ser	Xaa	Pro	Xaa	Trp	Gly	Pro	Xaa	Asp	Pro
			100					105						110	

Arg	His	Xaa	Ser	Arg	Asn	Xaa	Gly	Xaa	Val	Ile	Asp	Thr	Xaa	Thr	Cys
		115					120					125			

Xaa	Xaa	Ala	Asp	Leu	Met	Gly	Tyr	Xaa	Pro	Val	Val	Gly	Xaa	Pro	Xaa
	130					135					140				

Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	

Gly	Xaa	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165				170						175	

Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Xaa	Xaa	Xaa	Pro	Xaa	Ser	Ala	
			180					185					190		

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<213> Homo sapiens

<220>
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<223> "Ile" or "Val"

<220>
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<222> (186)
<223> "Ile" or "Val"

<400> 270

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Xaa Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Xaa His Pro Ala Ala Ser

<210> 271
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<212> PRT
<213> Homo sapiens

<220>
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<223> "Ala" or "Thr"

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<223> "Thr" or "Ala"

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<222> (67)
<223> "Gln" or "Lys"

<220>
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<222> (70)
<223> "Arg" or "Gln"

<220>
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<222> (71)
<223> "Ser" or "Pro" or "Leu"

<220>
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<222> (109)
<223> "Gln" or "Pro"

<220>
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<223> "Leu" or "Ile" or "Val"

<220>
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<223> "Ala" or "Leu"

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 <223> "Leu" or "Val"

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 <223> "Thr" or "Val"

<220>
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 <222> (189)
 <223> "Ala" or "Thr"

<400> 271
 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15
 Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30
 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
 35 40 45
 Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60
 Ile Pro Xaa Ala Arg Xaa Xaa Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65 70 75 80
 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
 85 90 95
 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Xaa Asn Asp Pro
 100 105 110
 Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys

115

120

125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Xaa Val Gly Ala Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp
 145 150 155 160

Gly Xaa Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Xaa Ser Cys Leu Thr Xaa Pro Xaa Ser Ala
 180 185 190

<210> 272

<211> 191

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<220>

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<222> (12)

<223> "Lys" or "Gln"

<220>

<221> SITE

<222> (17)

<223> "Arg" or "Leu"

<220>

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<222> (44)

<223> "Leu" or "Met"

<220>

<221> SITE

<222> (71)

<223> "Pro" or "Ser"

<220>

<221> SITE

<222> (72)

<223> "Thr" or "Ala"

<220>

<221> SITE

<222> (85)

<223> "Phe" or "Leu"

<220>
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<223> "Gly" or "Glu"

<220>
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<220>
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<223> "Arg" or "Lys"

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<223> "Ala" or "Val"

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<223> "Val" or "Ile"

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<223> "Ala" or "Thr"

<220>
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<223> "Thr" or "Ser"

<400> 272

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Xaa	Arg	Asn	Thr	Asn				
1				5					10					15					
Xaa	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly				
			20					25					30						
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Xaa	Gly	Val	Arg	Ala				
		35					40					45							
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro				
	50					55					60								
Ile	Pro	Lys	Ala	Arg	Gln	Xaa	Xaa	Gly	Arg	Ser	Trp	Gly	Gln	Pro	Gly				
65					70					75				80					
Tyr	Pro	Trp	Pro	Xaa	Tyr	Ala	Asn	Glu	Gly	Leu	Xaa	Trp	Ala	Gly	Trp				
				85					90					95					
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Xaa	Trp	Gly	Pro	Asn	Asp	Pro				
			100					105					110						
Arg	Arg	Xaa	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys				
		115					120					125							
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Gly	Pro	Val				
	130					135					140								
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Xaa	Leu	Glu	Asp				
145					150					155				160					
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile				
				165					170					175					
Phe	Xaa	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Xaa	Xaa	Pro	Xaa	Xaa	Ala					
			180					185					190						

<210> 273

<211> 191

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<213> Homo sapiens

<220>

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<223> "Gln" or "Met" or "Thr"

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<223> "Val"

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<223> "Leu" or "Val"

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<223> "Arg" or "Gln"

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<223> "Pro" or "Ser"

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<223> "Glu" or "Thr" or "Gln"

<220>
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<223> "Arg" or "Lys"

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<223> "Ala" or "Ser" or "His"

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<223> "Ala" or "Gly"

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<223> "Gln" or "Lys"

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Xaa Arg Pro Xaa Asp Xaa Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Xaa Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Xaa
35 40 45

Xaa Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Xaa Xaa Arg Xaa Xaa Xaa Gly Xaa Xaa Trp Xaa Xaa Pro Gly
65 70 75 80

Xaa Pro Trp Pro Xaa Tyr Xaa Xaa Glu Gly Xaa Xaa Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Xaa Pro Xaa Trp Gly Xaa Xaa Asp Pro
100 105 110

Arg Xaa Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Xaa Val Gly Xaa Pro Xaa
130 135 140

Gly Gly Xaa Ala Xaa Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp
145 150 155 160

Gly Xaa Asn Xaa Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
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Phe Xaa Leu Ala Leu Xaa Ser Cys Xaa Xaa Xaa Pro Xaa Xaa Xaa
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			20					25					30		
Gly	Val	Tyr	Xaa	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Xaa	Gly	Val	Arg	Xaa
		35					40					45			
Xaa	Arg	Lys	Xaa	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Xaa	Xaa	Arg	Xaa	Xaa	Xaa	Gly	Xaa	Xaa	Trp	Xaa	Xaa	Pro	Gly
65					70					75				80	
Xaa	Pro	Trp	Pro	Xaa	Tyr	Xaa	Xaa	Glu	Gly	Xaa	Xaa	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Xaa	Gly	Ser	Xaa	Pro	Xaa	Trp	Gly	Xaa	Xaa	Asp	Pro
			100					105						110	
Arg	Xaa	Xaa	Ser	Arg	Asn	Xaa	Gly	Xaa	Val	Ile	Asp	Thr	Xaa	Thr	Cys
		115					120					125			
Xaa	Xaa	Ala	Asp	Leu	Met	Gly	Tyr	Xaa	Pro	Xaa	Val	Gly	Xaa	Pro	Xaa
	130					135					140				
Gly	Gly	Xaa	Ala	Xaa	Ala	Leu	Ala	His	Gly	Val	Arg	Xaa	Xaa	Glu	Asp
145					150					155				160	
Gly	Xaa	Asn	Xaa	Ala	Thr	Gly	Asn	Xaa	Pro	Gly	Cys	Xaa	Phe	Ser	Ile
				165					170					175	
Phe	Xaa	Leu	Ala	Leu	Xaa	Ser	Cys	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	
		180						185					190		